APRIL 1958

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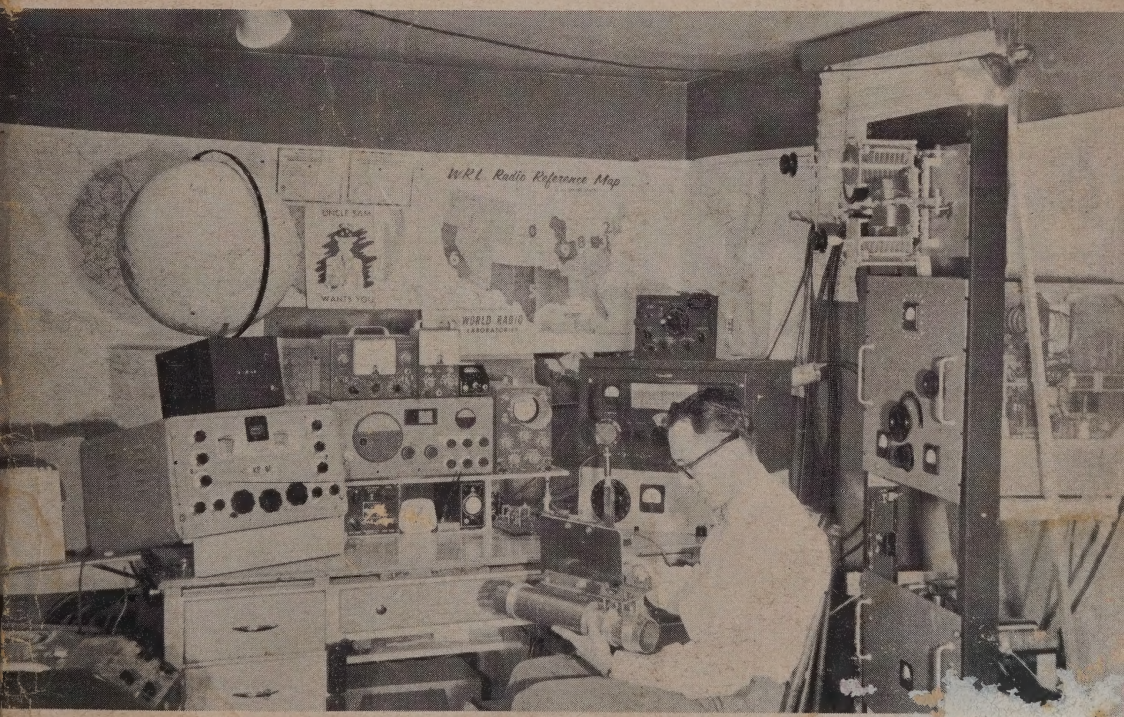
and West Coast Ham Ads



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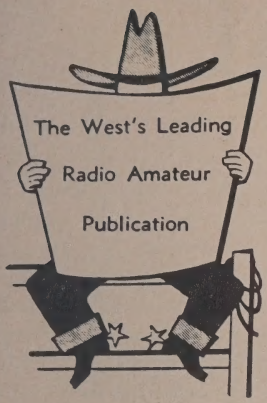

Western Radio Amateur

and West Coast Ham Ads

10517 Haverly St. El Monte, California
Gilbert 8-2119

A Monthly Publication

Voume 4 Number 12

APRIL 1958

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SUBSCRIPTION RATES:
1 year $2.00 2 years $3.50
3 years $5.00
Foreign add $1.00 per year

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Editorial

Art W. Brothers W6IQJ

This month brings two new names to our mast head. K6 Easy DX as he likes to call it might be called just that. Residing in Fresno Bob's six meter signals should be heard all over the state of California, as soon as he gets re-built with his new kw. If you have VHF doings, either your own or info on others, drop a post card to Bob and let him know about it. If he gets the information before the 15th of April it will appear in the May issue.

Ken Glanzer, W0LMB (Lice, Mice, Bedbugs) or Judge as he is known over the air is doing our Antenna column. July 57 CQ carried an Antenna article many of you might have read. If you have questions about antennas or want to let your own pet hints be known drop the Judge a line. He will select the better questions from the lot and publish them with answers. All others will be answered direct if you enclose return postage. By the way, the Judge is working for Boeing Airplane Co. in Seattle and is on the air portable 7.

NEW ADVERTISERS

We welcome with enthusiasm four new advertisers to the pages of Western Radio Amateur.

Hy-Gain has taken a lease on our back cover and there you will find the latest dope on their antenna line.

Amperex makes an excellent line of Amateur transmitting tubes. We have an article in the works using their tubes with a few other changes to convert the DX-100 to a kw rig complete within the same box.

Radio Products Sales here in Los Angeles is a parts house and sells a complete line of gear for the amateur. They are also the KTTY center for this area.

Moseley will be scattered around inside the book thumping the tub for their product, namely antennas.

WORLD TRAVELER

W7KVU tells me the world is in good shape Ham wise. Having just returned from a round the world expedition I think he was more afraid of missing his plane connection to New York than at any other time since he left three months ago. The main reason for anxiety was that my 54 Ford's ignition decided that it just wanted to lie down and die. Despite heroic efforts on the Ford's part, we managed to chug along on one or three cylinders reaching the airport in time to give him a rousing send off.

INCIDENTAL INTELLIGENCE

Not having a good deal of money to spend on gasoline for the above mentioned buggie I began to look into cheaper forms of transportation. The VW seemed a good deal but I wound up with a Zundapp Bella motor scooter. After all, who am I to insult the Consumer magazines that tell me the Bella is the best scooter in the U.S. To get on with the story I got my scooter by taking over the equity of one Joe Palmer who has left for Illinois and more money. Joe had taken a Bank of America loan to pay for the scooter. Another company had the insurance. In going through the formal paper transactions to transfer the bank note and insurance to my name I discovered that the middle man wanted $17.00 for his efforts. Furthermore, Joe was informed that just because the bank changed the name on the paper didn't relieve him of the responsibility in case I didn't make payment on time. In otherwords, if the bank couldn't collect from me, they could still collect from Joe. In checking this fee, which was the same thing as adding another 6% interest on the note, I found that the Bank of America got $10.00 and the middle or paper man got $7.00. In this case I found that the insurance was transferable, but generally speaking, this is not the case today. Most insurance is not transferable...net result: if

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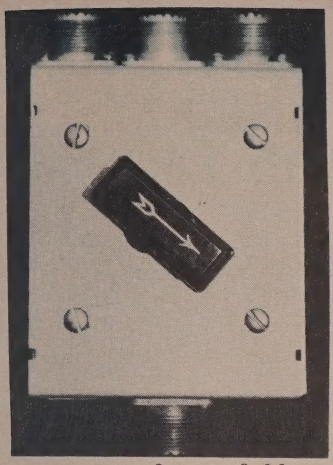
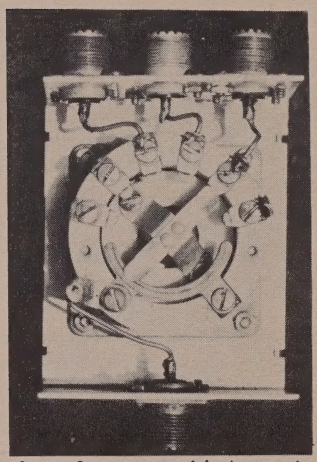


Switching Coax

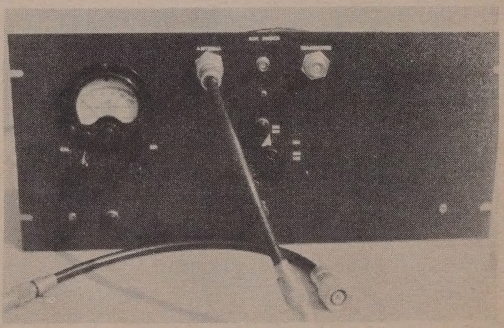
Ed Marriner W6BLZ
528 Colima LaJolla, Calif.

Perhaps many of you fellows have several antennas or transmitters and one low pass filter, or antenna relay. I have had this problem for a long time with one rig on 80 and the other on 20 meters. Unscrewing co-ax fittings becomes bothersome and a good co-ax switch expensive. With this in mind while browsing around the surplus stores, I noticed a switch in the BC 375 E tuning units. It occurred to me that a good co-ax switch could be made from it. Hauling it home, I found it would just fit in a LMB #135 chassis box. The size of the box is 3-¾ in. x 3 in. x 2-1/8 in. and the switch fits fine. With a little filing on one side of the SO-239 chassis co-ax connectors I could make three fit on the top and one on the bottom. Now antennas could be switched on frequencies below 30 mc with little loss. Another box was made up just like it to switch transmitters.

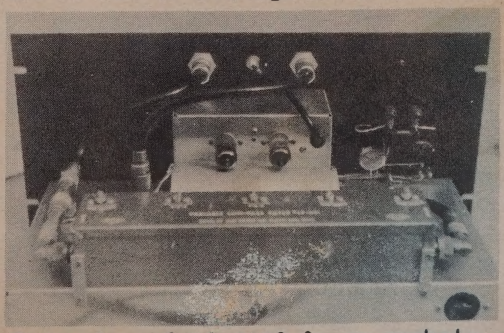
A panel mounted TR switch, ratiometer and low pass filter had no room for one of these switch combinations. King Electronics, 50 Marbledale Rd., Tyckahoe, New York, suggested a UG-1132 panel mount base and a UG-1134 plug. This combination is something new and different. The plug has three ballbearings inside and pushes on to the base. The Ballbearings fall in a groove on the base mount. To remove the plug you just pull back on a sleeve and pull it off. Thus, in essence, you have a co-ax fitting that works just like an earphone plug and you can change antennas and rigs in a hurry. The photographs show the final results. It's great!



Back view Co-ax switch made from BC 375E surplus switch.



Front view showing UG 1132 panel socket and UG 1134 co-ax plugs which pull off.



Back view of UG 1132 Co-ax sockets.

Impedance Control With Feedback

Irving Gottlieb W6HDM
1593 Waxwing Ave.
Sunnyvale, Calif.

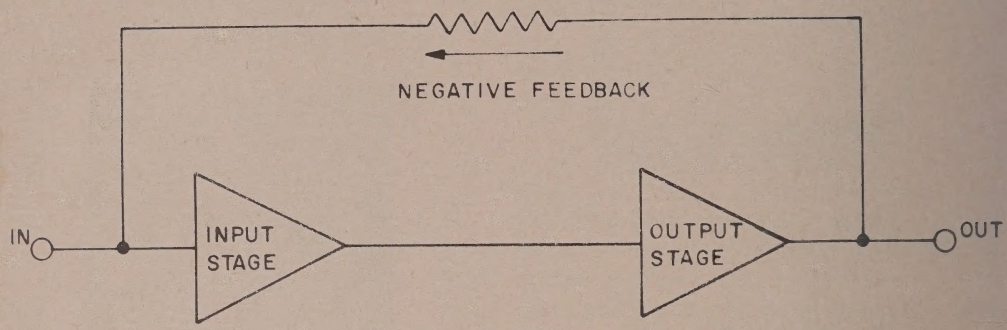


Fig. 1. Block Diagram of Negative Feedback Amplifier

An amateur contemplates the construction of a new rig. Rf, once stabilized, is naught but a carrier for the medium wherein we exhibit our competence as audio engineers, to wit, the modulation. So our afore-mentioned ham quickly lays out the tank circuitry, et all, for the one kw final; in postscript manner, he recalls the necessity of provoking it with a couple of watts of xtal controlled rf, and there he has it-the rf is generated and one can get down to the serious business of providing life-like *audio*. Now, inasmuch as life-like audio is reputedly known as 'hi-fi', it is nothing less than natural that our enterprising hamster consults the high fidelity sections of the first half dozen periodicals that come to mind.

Upon doing this, our soon to be perplexed non-professional finds; first *everything that can be said about bass reflex cabinets has been said.* Secondly, when you seek the anihilation of distortion, *you squirt in feedback.* In the spirit of fairness, you squirt in one db of feedback per db distortion you wish to eliminate. Of course, you are occassionally cautioned to ascertain the feedback is of the negative variety. In the long-haired publications, you wade through a jungle of math to reach the same conclusions. No matter how presented, the panecia is the same, feedback, feedback, and *more* feedback.

Well, after building a few speech and modulation amplifiers, our trusting amateur advanced to the status of a trustworthy professional, for the experience thereby gained qualified him to design audio circuitry the *proper* way for an electronics firm. by 'proper' way we wish to imply that attention is directed to the *input and output impedances* of audio amplifiers. Merely inserting feedback is *not* enough we must also give due account to the *change* in input and output impedances *caused* by the incorporation of feedback. Otherwise, the equivalent generator, the microphone, phono-pick-up, or pre-amplifier which feeds our feedback amplifier will not 'see' a matched or approximately matched, impedance. Likewise, our feedback amplifier will not be matched to the 'right ball park' of output load impedance. Gross impedance mis-matches generally *degrade frequency response,* produce inefficient power transfers, and often bring about phase-gain conditions resulting in *oscillation.* A harmonious blend of mathematical ability, technical experience, and intuitive dead-reckoning is required for a first class design of a feedback amplifier which is properly related to its electronic environment. Notwithstanding this, we can at least

aim in the right direction if we *know* what to expect from the many different ways in which a negative feedback path can be connected in an amplifier. Knowing this we obtain superior results by designing a negative feedback amplifier to our particular driver and load conditions.

Figure 1 is a simple block diagram of a two stage amplifier with negative feedback. This represents the actual scope of the matter in much of the technical literature. The reader is often advised of the benefits acruing from matched impedances but a crime of omission is committed by *neglecting to point out the impedance control exerted by feedback.* Our mission will be to show that a given amount of feedback can be provided by a number of different circuit paths; by wise choice of a feedback path, *we may raise or lower either input or output impedance.*

Consider the two stage transformer coupled amplifier shown in figure 2. The numbered circuitry junctions are points in the output circuit from whence feedback may be *derived.* The lettered circuitry junctions are points in the input circuit to which feedback may be *applied.* In the process of deriving and applying negative feedback, we must make certain that the polarity of the returned signal *counteracts* that of the input signal, that is, a 180 degree phase difference must exist between the feedback and the input signal. In order that this condition can always be brought about, we will assume that the connections to coupling transformer T2 are appropriately phased. For some feedback connections, transformer T2 must *invert* phase; for other feedback connections, transformer T2 must *preserve* phase. For the sake of simplicity, it will be assumed that input transformer T1 and output transformer T2 *preserve* phase. (The top of both windings of T1 are simultaneously positive or negative; the top of both windings of T3 are simultaneously positive or negative).

In figure 2 the feedback path composed of Rf and C can be connected from any *number to any letter.* Transformer T2 is connected to provide the phasing needed for negative feedback in all cases. Capacitor C is assumed to be very large with respect to the lowest frequency involved and serves only as a dc blocking capacitor.

There are two basic methods of *deriving* feedback and two basic methods of *applying* or returning feedback. Let us consider feedback derivation first. If we derive our feedback voltage in

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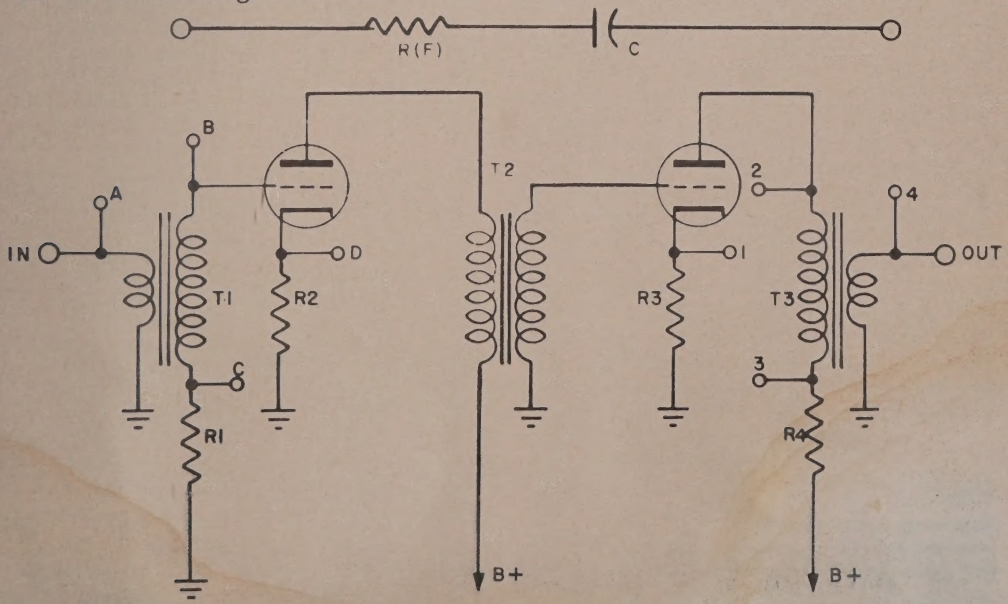


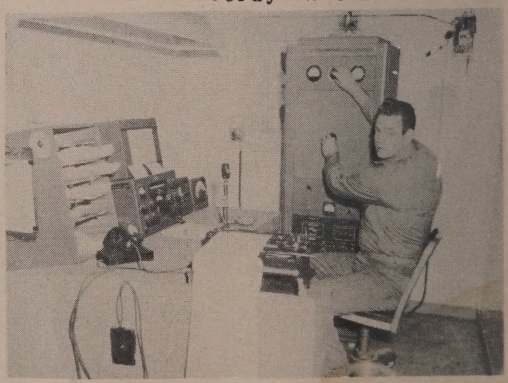
Fig. 2. Typical Two-stage Amplifier and Possible Feedback Junctions

Loupin The Loop

By Corky W6ORS
1833 Vega St. Alhambra, Calif.

On this rainy night in March, we put another issue of ex-WCHA to bed. Amid memos from the new editor, bulletins from the publisher, club papers from all you guys and the dope I have picked up from the loop, will try to make this column an interesting one. First to the ARSCC. Seen this last month were K6CX in his Hillman, W6FTU in a Tbird, W6VHS driving a VW, and W6GNK in an MG. Last but not least, my old buddy K6AEC in a Renault...Have had several requests for circuitry on a 6 meter XMTR and Converter. One came from Casey, K6JBX, another from Don, K6DBY. How about it Mr. Editor?? Guess what? This op just became a member of the Radio 50 Club. Other new members are Speed Sheetz; W6FMO, Bill Myers W6IHK and Roy White, W6ROS. Some of the other members are: Virg Talbot W6GTE our SW District Asst. Director of the ARRL, Howard Shepherd W6QJW one of the outstanding Ham criminal lawyers. Ray Meyers W6MLZ Chairman of the Copp Interference Committee, (and running for City Council of San Gabriel), Wally Newman W6FEX that great DX'er and Salesman for Radio Products Sales (see this issue for their ad), 'Les' Lester W6USY and 'Cavi' Cavadini W6GYH thoses two tfk men, and so on, far into the night. A grand group of guys and I'm proud to be one of them... Got the news that Russ W6TTB has received his new Drake RCVR as of late. This is the SSB go getter that we all have heard about lately...Heard that the South Gate Mobile Club are going on 420mc TV. Wonder if that will be signed TVmobile...Jerry W6SGF built a Viking Ranger Kit in 36 hours. Did it work first time out OM? Downey Radio Club took back their gavel at the last meeting of the Ramona Radio Club. They looked nice in their derby's, too...I found out who that SSB station is on 28.650kc. It's Dan, K6DFM, Encino. You can set your dial on him, too...Info from Long Beach has it that lots of hams thereabouts are out with accidents. Jim K6GRC, Scotty W6OAU and Marian K6-CPX are all recovering from broken arms and stuff... I see where the rig built by Frank W6JLH, sold to Chet W6CNI, and then to me W6ORS, used and then sold to Bob K6RAG, has finally found its way to Ron Angle K6KYJ. Gud luck with our old rig, Ron. It's a good one as will all of us affirm...Phil W6IMT has a 10 meter wonder bar with reflector working...Dick W6CCD soon to be heard on 6 meters...The West Valley RC has a new Activities chairman in the form of Dan, K6TBC...Bill W6VIX has been traveling around the loop giving talks in the name of the San Bernardino Microwave Society. Here's a fine guy with a message for all hams that like to tinker with the unknown. Bill sez it's just like the old 5 meter days before commercial equipment was available... Newest ham at this sitting is Johnny Tao who just received KN6OQQ...Gene W6COZ, Larry K6JYR and Cason W6SW doing a fine job with the Tri-County Amateur Radio publication. QRM...Well, I've hit the bottom for this time. It may be the last LONG chance that I will have to bend your ear for quite some time...Orders are to shorten the columns and get on the ball, for this magazine is off to the races. If you don't believe me, just miss a couple of issues, and see if the info available here dosen't really keep you up with the times. Patronize our advertisers, and enjoy yourself, it's later than you think... Vy best 'o 73 es CUL

Corky W6ORS



U.S. Marine Corps photo
Gene Epperle, K6SLB shown at 20 meter operating position at W6IAB, Camp Pendleton near Oceanside, Calif. 2-250TH tubes running 1 KW.

Antennas

Judge WØLMB/7
202 S. 124th
Seattle, Washington

As we all know, the antenna is the biggest determining factor in 'getting out'. There are all kinds, each with different characteristics of pattern polarization and feeding. They all have advantages and disadvantages. The one you try to use, of course, is the one with the most advantages for your particular purpose. You can brute force your way through with a couple of KW but that won't help a bit when it comes to hearing the weak ones. Only an antenna with some gain in the right angle of radiation polarization and direction helps in this department. The 'right combination of the right tobacco' occurs when you have the *right antenna,* lots of audio and a good receiver.

Well, now how do we go about getting the magical antenna? There's no easy way without money and space, but there's more than one way to skin a cat.

Now before you get excited I would like to point out that using the right antenna is not all the battle. Other factors such as good grounds, right height, flat feedlines at the operating frequency, etc., etc., and a lot of planning are just as important. What this column will attempt is help you in planning and selecting the right antenna. Several very effective antennas will be described. Each will have been tested personally and must provide outstanding results before I talk about it. Adjustment instructions will include proper use of grid dips, antenna scopes, SWR bridges and some of the tricks of the trade. Methods of grid dipping of ½ or ¼ wave feedlines will be described. Simple theory will be mixed in to help you understand what's going on. You won't have to follow the step-by-step instructions but will be able to take off on your own.'

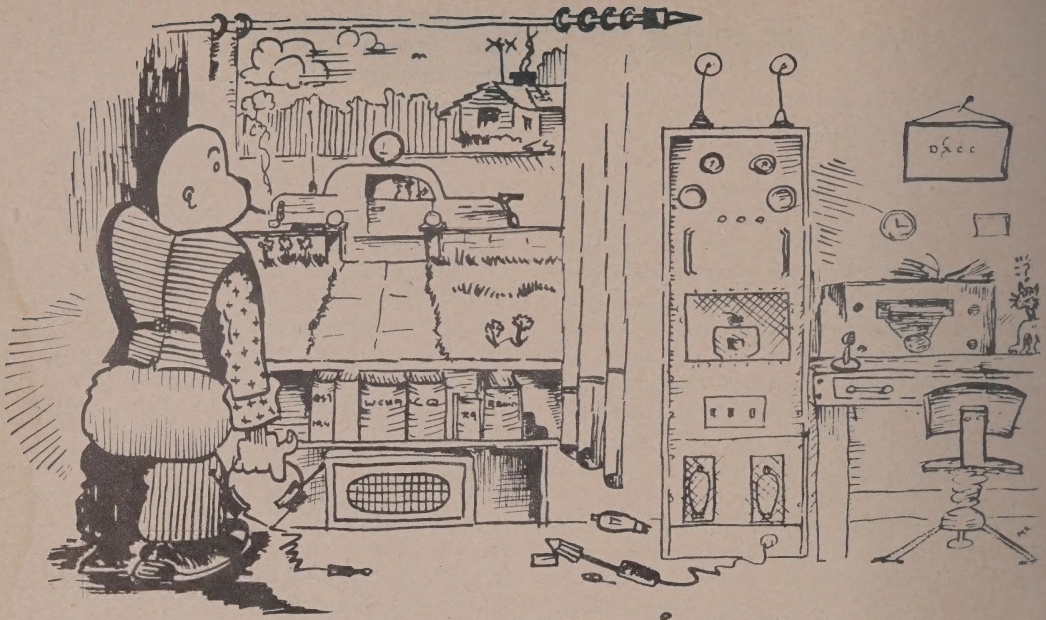
This is as good a time as any to make it clear that theory works every time. Yes, I said every time. The theory that doesn't work is the theory you don't know, chum. WØAJL was the first to show me how easy it is to make theory work. I'll describe his 20-meter matching technique some time and you'll see what I mean. Argument anyone?

I am about to propose a different concept of thinking concerning ham antennas and have the results to back it up. Essentially this concept is: 'In general the idea of increasing gain (above say, 8db) is a step in the wrong direction. An antenna with three or four instantly selectable different angles of radiation and polarization is a step in the right direction.'

Consider these known facts. If the skip isn't right and you want to get into a certain area, it doesn't make any difference how much gain your antenna has or how much power you have, you're out of luck. The only thing you can do is wait for the ionesphere to shift. Your antenna is a slave to the ionesphere. Since you can't change the ionesphere and all it's peculiarities, change the antenna. To change an antenna physically is generally not practical. However, there are ways. One beam I have been working on is able to change the angle of radiation and polarization several ways. If the skip isn't right, simply use a different angle. If a signal fades, try another angle. The beam eliminates QSB caused from polarization shift.

Polarization shift takes place when e.g., a signal is transmitted horizontally polarized but is arriving at your antenna vertically polarized or mixed, then a few seconds later horizontally polarized. The signal intensity may be the same but your antenna accepts either horizontally or vertically polarized waves (depending on what you have) the best. When polarization is wrong the signal fades. Sad but true.

Why is extra gain not a right step? Nobody denies the advantages of gain but consider disadvantages, reduction of bandwidth, low impedances resulting in feed problems and corresponding increase in size of the monster, etc., etc. In other words, there's a practical limit. Anything beyond that is not practical unless you construct a fixed wire beam. Next month -- design tips.



A CAR WITH A LOOP STOPPED IN FRONT OF JIM'S HOUSE

The Unsolved Problem

By
Ed Marriner W6BLZ
528 Colima LaJolla, Calif.

James Quiggle, -Ham, stood looking out of his front window, waiting for his receiver and 866's to warm up. Just as he was about to light a cigarette he noticed a big yellow moving van stop at the vacant house across the street. The match nearly burnt his finger as he thought, 'I wonder what kind of TV set the new neighbors will have'. Then he began to ponder, 'what would be the best approach to tell them about a high pass filter. Everytime a new neighbor moves into the vicinity, either I bother their TV set, or the 15 kc oscillator in theirs bothers me'. Jim decided the best way to introduce himself would probably be with a bottle and corkscrew.

Now, the moving men were pushing the infernal machine into the house, on a two wheeler, Jim turned from the window too disgusted to watch any more. Walking over to the operating position he put on the headphones to drown his worries on DX.

Several days passed and it was Friday. Jim Quiggle had fired up the old coal burner for the opening of the DX contest. Shakily, at 1700, he feared to turn on the receiver. When he did it was just as he had expected. There was that new infernal RAC 15 kc TV oscillator from the new neighbor's set buzzing all over the dial. It had been bothering him all week, since the people had moved in. Just like he suspected, 'I've had it, and tonight I am sure.' Punching out the cigarette, he kicked the waste basket across the room. Little wads of paper containing past QSO's rolled out on the floor. Calming down a bit, he leaned over and picked up the paper at the same time catching his fingers on some bubble gum his little girl had rolled up and thrown in the waste basket. Now he was really in a dark mood. Jim decided to go to bed and get up early the next morning, and hit the DX hard.

When morning finally arrived, Jim

was feeling as snappy as his pet rabbit throwing a tin-can around its cage. The supply of DX was going down in the log one right after another. About 0620 he went to the kitchen for a cup of coffee to help prop his eyelids open. Returning to the key at 0630 he adjusted the fones on the top of his bald head. Then it happened. He listened for a moment and knew. Its an electric razor, -it's those d..... TV birdies again. Why would anyone in his right mind, watch TV at 0630 in the morning. Jim was forced to secure again, and decided he would find out.

Later that morning, armed with a bottle and corkscrew, Jim set out to call in his new neighbor. Walking up the gravelled walk, catching his coat pocket on a berry bush, he wondered what this fellow did for a living. The door opened and the new neighbors hand welcomed him in. He was a tall, nervous individual and he apologized for the TV set being turned up so loud. 'My wife being in the kitchen it serves two useful purposes. She likes to listen to TV while she gets breakfast and lunch. I use it because they announce the time when I am shaving in the morning and I don't have to look at my watch'.

All went along nicely until Jim announced he was the fellow who lived across the street where that big antenna was. It hadn't quite dawned on the neighbor until that moment. The warm atmosphere quite suddenly changed to a frosty one. 'Oh you must be the ham that's coming in on my TV set.' Jim had hesitated to brooch the subject so soon, but he felt, 'now is the time to straighten things out before I get thrown out.' Before speaking he made an attempt to sneak a quick look behind the TV set to see if there was a little tin box hanging from it by the lead-in wire. He didn't get the chance - the neighbor demanded in no uncertain terms, 'what do you think you're looking for anyway?'

Jim felt inclined to say, 'Why I am looking for that dog you're speaking to.' However diplomacy prevailed and slowly in an even tone Jim tried to explain, 'you know, some TV sets are deficient in parts which allow amateur signals to sneak in - your set is an unlicensed transmitter interfering with an FCC licensed station.' At this point Mr. Black, testily informed Jim: 'I am Vice president of the TRI-ZERO Aircraft Company - and my set is manufactured by the same people who make the aircraft radio parts for our factory - an further more I know they are reliable'.

Jim could plainly see there was no use for further argument and after advising Mr. Black where he could get a high-pass filter, he quickly made his exit.

Late that afternoon Jim thought he was getting an ulcer, and decided this problem was not something for him to worry over. He felt it was an opportunity to find out if the City Radio Interference Department could do anything about it. After all there was a City Ordinance to prevent such things as radiation from devices. Using the telephone, a good solid device with no interference, and only rings when you are working some DX station, Jim put in a call to report interference from a TV set.

That evening Jim noticed a man driving around the block, with a loop rotating on top of a City Radio Car. Finally it stopped in front of Jim's house and he went out to greet the man wearing a big grin on his face. From the corner of his eye he could see a slight motion of his neighbors curtain and he thought, 'ah, he probably thinks the interference man is after me.'

The City Radio man smiled and said, 'I hope I can find the interference without bothering you, however its easier this way. After I drove around the block three times, the noise bearing would peak up on every telephone pole that had a ground on it.' Jim got in the man's car and the loop, strangely enough, pointed precisely to where the noise was coming from. 'That interference man is a brave man,' Jim thought as he was watching the man approach the door. 'They ought to have medals for men like that', he mused. Through the big front window of the house he could see a half dozen people seated around the dinner table. Then the door bell rang and he could see

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DX report

Dick Spenceley KV4AA
Box 403, St. Thomas
Virgin Islands

single-sideband expedition to San Andres Island (HKØ) will take place from April 11th to 14th. Participants are TI2HP and VE3MR. The latter will bring along a KWM-1 rig. Others going along may be TI2RC, TI2IO, TI2EV and TI5JG. In case HKØ calls are not issued to them HKØAI will be borrowed from Victor who is a resident of the island. A bit of CW may also be used.

FK8AS says FKØAD, claiming to be Chesterfield Island, is NG and anyway this spot counts as FK8!

Reports have it that VKØTR is on Heard Island!

ZS6AJH/ZS7 was due on SSB March 8th and 9th.

The African trip by VQ4EO progressess and he has recently been on as VQ4EO/FE8. Further stops are in this order: ZD2, FQ8, 9GI, ZD1, ZD3, VQ2 and ZD6. Phone is used (SSB) on 14325 and Paul listens for W's on 14265. ZS6AQQ is on daily on 14313 at 0500 GMT to help skeds. Call him on 14265 also. QSL's go via Richmond Radio Club, Box 1985, Richmond, Va.

Union of Egypt and Syria became effective as the United Arab Republic on Feb. 21st. This could become a 'new one' but present trend of thinking seems to think that it should continue as two countries, SU and YK, as the two areas are separated by other countries and are in different continents. At last reading it seems that Yemen, 4WI, has also joined this combo.

ARRL says East Pakistan has good chance of becoming a separate one if some ham activity shows from there!

The CN8 boys, due in Monaco after March 1st (according to reports) seemed to have jumped the gun on us a bit and arrived at 3A2 about Feb. 21st. 3A2CD (CN8FQ), QSL via W4UFQ, 3A2CE (CN8IF), QSL via W2SGC, and 3A2CF were active until March 2nd. Dispensing many much wanted contacts.

VQ8 calls will shortly be reorganized with Mauritius dependancies having three letter calls ie: Chagos Islands will be VQ8CAA etc. and Rodrigues Island VQ8RAA etc.

ZL1AR7, Kermadecs, is now on again, 3690 AM phone, after two week layoff rebuilding. ZL2GX can help with crossband. 14120 to 3690, contacts.

HA5AM/ZA, scheduled for appearance from Albania again on March 1st, did not show up. HA5AM flight schedules now take him to OZ and LA lands but ZA operations are possible later on in year. He has made 300 contacts from ZA plus WAC to date.

We heard W3CRA QSO'ing SM8AQT/LA/P on 14050. SM8AQT is using old rig of SM8KV/LA/P. Length of time there unknown but LA6CF may operate from Svalbard or Bear Island this summer.

VS1FJ advises that Maldive Island activity may take place during latter part of March or beginning of April.

VS5JL is active on 14160 phone while ZK1AK has been heard on 14094 at 1130 GMT with T8C signal. ZK1AB is also on, near 14040 with T7 drifting sig. VS4BA is heard on 14080. XW8AI continues activity from Lais on low end of 14 mc cw around 1100 GMT. QSL via REF. FB8YY. Terre-Adelie Antarctica, is heard frequently at 1200 GMT, 14018 while FB8XX, Kerguelen, may be found 14040 around 0100 and 1100 GMT.

We regret to log the passing of

K4QVM Ben

UO5AA Valen

W6GAL/7 who succumbed to a heart attack recently.

FB8CD, Comoros, was heard on 14080 at 1900 GMT. We have rumors that he will go QRT shortly.

W5FXN and W5OWC recently sent 250 QSL's to JZØDN for use in answering WGDXC contacts. High cost had prevented JZØDN from obtaining QSL's.

JZØHA, Dutch New Guinea, has been fairly active of late near 14012, 1500 GMT. QSL's may go via VERON or direct to Hugh Koppes, Box 420, Sorong, Neth. New Guinea.

HA5AM completed WAZ with JT1AA while XW8AI turned the trick for W1KXU.

Via W4BPD a VU2 advised that he contemplated a dollar-per-QSL DX'-pedition to the Andaman/Nicobar Islands this Fall or Summer (VU5).

Danny Weil and YASME II should definitely sail during the latter part of March after many delays. He is turning damage suit over to his mother to pursue and is repairing YASME with own funds so that the expedition may

W8WQE and jr. opr.

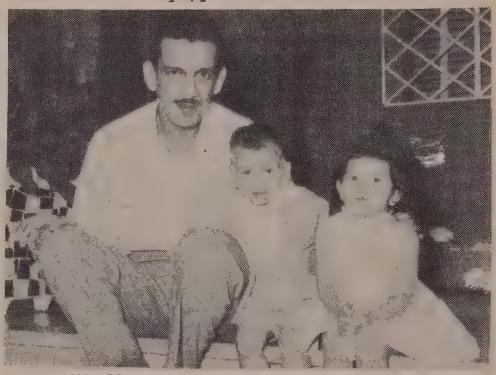
be speeded. Court litigation might extend over nine months! We trust that VP2VB/MM has been heard by the time this is read. ZD7A will return to St. Helena. Info later.

Voice of America ham program will be resumed as part of the 'Report from America' show. Each Tuesday 2100 to 2130 GMT on VOA frequencies. Main springs are W2SKE, W2BAK and W3ASK.

Last Minute Items

As fate will have it these last minute words chronicle the change-of-course of one dx'pedition and the demise of another as mentioned earlier in the column.

Permission to visit Clipperton did not come through for W9EVI and his boat left Panama, enroute to Hawaii, with radio equipment and 1200 gallons



YV5EC, Pete, with son Roger and daughter Ingrid.

of gas but minus W9EVI.

CN8JX reports ZD7SA on from St. Helena. His name is Bob and he is an ex-G3. QSO was made on 28060 at 2110 GMT and beam heading was OK. Length of stay unknown.

JZØHA, ex-JZØAG, Dutch New Guinea, puts good signal through on 14062 around 1200 GMT.

OK1MB reports that, due to reorganization in the new Arab Repyblic, YK1AT went off the air on March 13th. He hopes to have permission to get on again by April 1st. Bohous has made 1750 QSO's to date. QSL via OK1MB. ONLY.

Apparently it was VQ4EO who recently operated as FL8DZ in French Togoland. He continues his trip tn oo 9G1, ZD1, ZD3, VQ2 and ZD6. QSL via W4IYC.

VS5JL, Brunei, was worked on 21200

kc, phone, by G3CHL, VS5JL also reported on 14160 phone.

CN8FQ reports recent 3A2 (Monaco) operation netted about 1000 contacts which include 150 on ssb with W/K's. Conditions were low but there were a couple of good days.

Rumors have it that a couple of Minneapolis ops will put HC8 on the air sometime this fall. License has has been promised OK.

ARRL still ponders status of the West Indian Federation in the face of contradictory data received. Hope the matter is straightened out prior to the YASME's arrival in these waters as Danny could call in at any new one around here. If the whole Federation is lumped together as one country, Jamaica to Trinidad, it would result in a loss of several countries as far as newcomers are concerned so it might be wise to adhere to the status quo with one definite change ie: The British Virgin Islands should certainly have separate status as they are a separate and distinct island chain and are NOT in the Federation. The island of Anguilla, recent scene of VPØRT (W6ITH) activity, is in the Federation and is usually controlled by the St. Kitts authorities. However this island is some distance from St. Kitts (as distances go down here) and is separated from St. Kitts and other Federation areas by a foreign country (island) namely St. Martin. In a QSO with W1IKE we begged that reconsideration be given Ruanda-Urundi, OQØ, for separate status. We have always been of mind that this trust Territory is deserving of same in view of the separate status accorded other Trust Territories such as Tanganyika and French Togoland. The UBA (Belgian Society) also desires it this way.

W3HGP plans FP8 trip this Summer while KP6AL reports that his projected trip to Starbuck and Malden Islands will not take place until after July (if at all) and no permission received as yet from British authorities.

VK9NT, Doc, runs 95 watts from Rabaul New Britian. He was heard on 14069 at 1220 GMT. QSL to: c/o RTC, TX, Rabaul.

Via W6YY we hear that VQ1AQ and VK4 KFL are cooking up a DX'pedition to VQ1 and VQ9.

Also, via W6YY and VR2BC, we learn that VR2AP, Al, is sailing the Governors new yacht from Singapore to Fiji during the latter part of March and most of April. He will sign VR2AP/MM and will be on 14340, 20 watts AM and 40 watts SSB, batteries permitting. Land based operation is hoped for along the following route: Singapore, Labuan British North Borneo (ZC5), Tawao British North Borneo, Dili Portuguese Timor (CR10), Darwin Australia, Thursday Island (australia), Port Moresby Papua, Honiara Silomon Islands (VR4), Port Vila New Hebrides (FU8/YJ1), and Suva Fiji (VR2). Prefixes in brackets denote stops for which permission to operate ashore has been received.

VS9AC says chances for him or other VS9's to go to Yemen are poor due to political situation there...VK9AD is on Norfolk Island, phone only, 14, 146...Arthur, ST2AC, has good cw signal on 14098...HS1E will be on air soon.

From the Ovara DX Bulletin we have a formula to work HV1CN as per W5ASG: 1. Contact I1CL (Loreto) on 14150 about 0530 GMT. 2. Arrange with I1CL to sked you with HV1CN. 3. HV1CN comes on the air at 0615 GMT to keep skeds made by I1CL. 4. It takes a lot of time and patience so don't give up and get your call on the I1CL list as soon as possible. (Thanks K4LNM).

Via W7PHO and West Gulf Bulletin (VS1FJ) we learn that large planes are landing on the airfield at the Maldives and a convoy is enroute carrying complete signal equipment. There has been no AC power on the island. Local government say that only nationals can operate but paper work is now rolling toward permits for others. Hams should, be heard from in 2-3 months...John, CR9AH, has 3 week holiday coming up and says he could go to CR10 if he can promote equipment...SM5KV will handle QSL's for SM8AQT/LA/P. Send self addressed envelope and 2 IRC... KØONS is now on Crete and hopes to be on air before long.

Walt, K6CMA, advises that he handles QSL's for VS4JT. Send self addressed, stamped envelope. Walt has worked 36

Cont. on page 24

W NEWS

By
Howard S. Pyle "YB" - W7OE
3434 74th Ave. S. E.
Mercer Island, Washington

Ha! See where Don was good enough to list me as "on vacation" last month; I was completely sure I had sent in my usual copy, but must have dropped a month...hi! Anyway, it probably DID constitute a 'vacation' for my readers!

W7PRA, Art, at Oregon City has been heard checking into traffic nets again after a long absence; this can only mean that Art's health has improved... we're glad, Art.

I get a nice little sheet each month from the Walla Walla Valley Radio Amateur Club, Inc. It's entitled W7DP (the club's call) NEWS LETTER and it's just that; nice and newsy for valley hams. The club is preparing a complete register of all hams in the valley and will soon be ready for distribution... lot's of low-down in all the boys.

Wonder if all you fellers are beginning to hoard your shekels for the coming activities...you have an Oregon Ham Convention coming up this summer, the Glacier National Park hamfest for Montana hams, and Quarter Century wireless Association banquet in Portland at Rose Festival time. Start saving NOW and you can maybe make 'em all!

Isn't it splendid the way Western Radio Amateur has improved and expanded over the last year? We've REALLY got a West Coast paper to brag about now. All we need to grow even bigger and better is MORE subscriptions and MORE advertisers. You fellows take care of the subscriptions by clubbing your friends; we'll use more subtle methods on prospective advertisers!

See where W7OMO recently won second prize in the Oregon State Net contest... the prize was a years' subscription to Western Radio Amateur.

The NW Chapter, QCWA continues it's phenomenal membership growth...almost every week Doc, W7OS or Chuck, W7ER, send me a new list of names to add to my roster! Glad to see all who can qualify, join this splendid organization of old timers. Check in on their social nets on Sunday afternoons and ask questions about it; CW net on 7125 at 3 pm and phone net at 3950 at 4 pm.

Our deepest sympathies to Pete, W7WAH who lost his cousin Mim, in an automobile accident a few weeks ago. A number of us have handled many messages between them in the past and we felt as though we too, knew Mim and we are saddened by her loss.

We are sorry to report that W7YDS, Al, of Bremerton, Washington, passed away in early March.

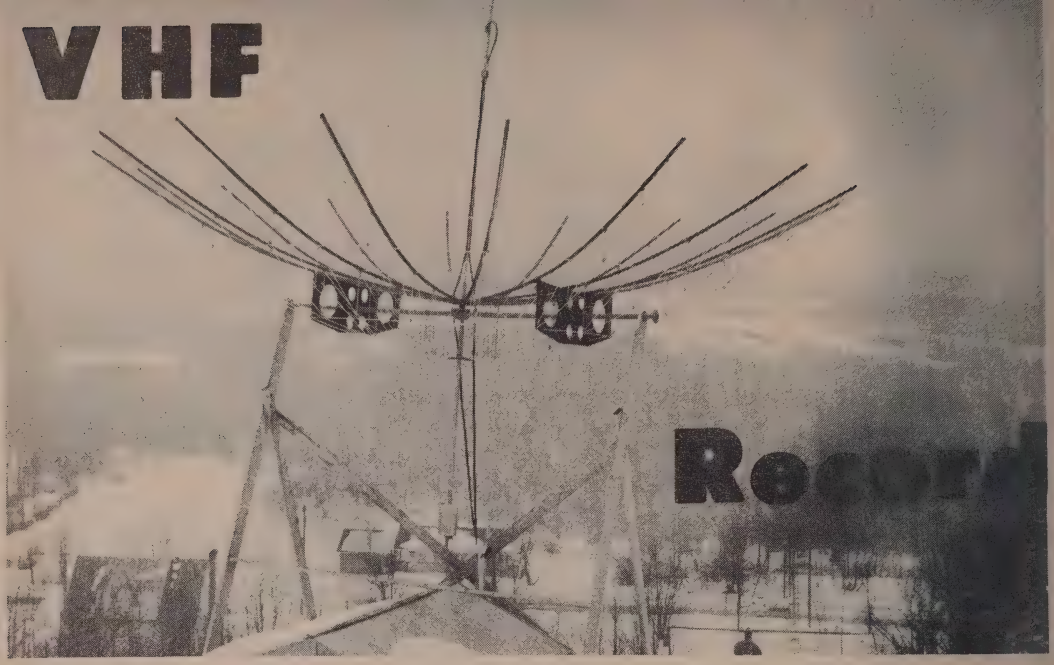
Harry Ubil, W7OHW is recovering from a second operation involving spinal injections, but is reported doing well. Stick it out Harry...as QCWA Historian, you'll need all the strength you can gain back!

Time now, for me to make a scheduled trip to our little museum in Seattle, so, for this month, "73" C. .U.

Is my face ever red! Turn to page 26 in the combined Feb. March issue and read again the Book Review I wrote on Walker Tompkin's (K6ATX) splendid new fiction book with a distinctly ham radio flavor. Can you find ANY WHERE in there what the NAME of the book is? Apologies to Walker, his publishers and my readers...the book is "SOS AT MIDNIGHT"...buy a copy...you'll not regret it!

LOOK WHAT THEY'VE DONE TO US NOW! Remember the photo of my 1957 Washington State call letter license plate in the Jan. issue? Take a look at what they've done to us on the 1958 plates! We gotta keep 'em several years too, with that big gap where we lost a tooth.

VHF



Robert B. Cooper, Jr. K6EDX
4832 North Fruit Ave.
Fresno 5, Calif.

One evening in early March, I pulled myself away from the 21 inch bulb to answer a long distance phone call, and was greeted by "So you want to write a VHF Column for us"; I did, and I do.

The western VHFer is perhaps as different from his eastern brother as the California KW is from the eastern "pair of 813's". The old adage, *it takes a westerner to understand a westerner* was never more at home, than in amateur VHF work. (Well...it's old now.)

With this and a few other thoughts in mind, I hope to produce a very informative, and useful, VHF-UHF column. VHF news is, by it's nature, timely. Unless a column is recent, we've all heard the news, somewhat distorted by rumor and word of mouth, and the column serves no real purpose save to straighten out the facts after the damage has been inflicted. Western Radio Amateur, however, runs on a very close schedule between deadline and mailing date. This means that your copy of Western Radio Amateur will contain recent, up to date VHF News (as well as other departments), putting it *on the operating desk* early enough to really be of benifit to your operating. With this in mind, and no bad habits at hand (we hope) to begin the column with, shall we scan the news?

VHF and DX

Just to dispel any ideas that may occur to you as you read further in the column, this is not going to merely be an extension of the DX column, into the VHF bands. It WILL contain a goodly amount of six meter F2 (and E skip) news for awhile, as this is important news at this time. But...repeating... this is not strictly a DX column.

BRING HOME THE 220 RECORD

George Alcott, K6PBW, Sepulveda, California, has set his mind to bringing the 220 megacycle record back to it's birthplace, the West Coast. Looking at the VHF records, we see westerners hold records for all bands, save 220 and 420 in the lower meg regions. George is working with several Northern California 220 men (K6RNQ, W6BAZ, W6AJF, W6SUE), formulating plans for an all out attempt this summer via meteor scatter. Currently, plans call for the first try to be made between S. California and the Seattle area. Bob, K6RNQ, tells us that Paul W6BAZ, is working on a pair of 4X250's and a large array, while Frank, W6AJF, is beginning to draft plans for a 220 shot to Hawaii, with KH6NS, and KH6UK on the Pacific end. Both moon bounce and ducting figure into the initial plans. With so much experience behind the group, we fail to see how they can do anything but succeed.

50 MEG DX REPORT

Every month, we plan to carry a detailed listing of DX worked, heard, etc. during the preceding month's period. As this is our first column. we will go back to February 15. Readers are invited to send along detailed lists of DX stations, openings, frequencies, etc. for enclosure within these pages.

Our thanks to: W7DYD, WØCNM, W5SFW, K6RNQ, K6UZK, W6BJI, W6FZA, W6SUE, K6 ERG, and Norm Burton, our VK observer for this month's material.

Brief: Feb. 1-15, Seattle Area.

Feb. 1,2.
W7DYD heard KH6UK, CCZ, AJT.

Feb. 3.
W7DYD wked JA1BTH, Hrd JA1AAT, AXE, ASI, BIR, 2IF, GR, 3JJ, PF, 8CX. W7TMU wked JA8CX, 2IF, 1AXE, 1BIR.

Feb. 7.
W7DYD heard KH6PP, UK, IJ.

Feb. 9.
1734-1814PST, E skip, K6BBK, IUF, TGH, ZUB/6 wked by W7DYD.

Feb. 10.
Aurora, 1830-2100, VE7CN, AFB, AKQ, W7NFC, RGS, SPF hrd, by W7DYD.

Feb. 14.
KH6NS, PP, CNI, UK heard by W7DYD.

Detailed: Feb. 16-March 15. (All times PST).

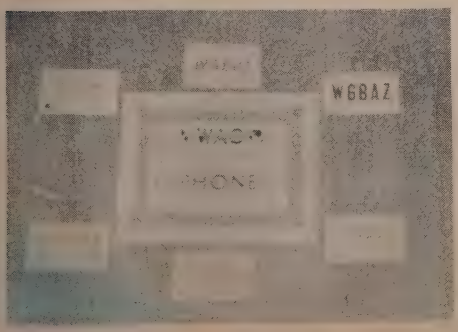
Feb. 16.
K6RNQ notes W1, 2, 3, 4, 0920-0940.

Feb. 17.
K6PXT wked KH6NS, 1304-1317.

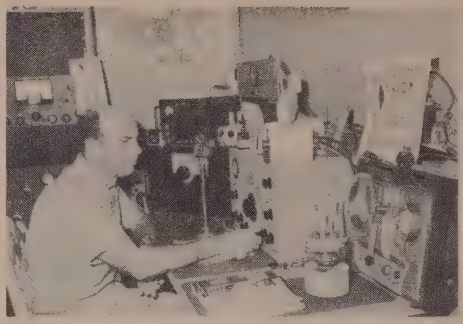
Feb. 18.
W6BJI reports W5, 9, Ø on Backscatter (BS), KH6, TG9JW F2. K6RNQ wked W4IKK, TG9'W, hrd KH6's, W5SFW, W4KKW. W7MAH (Reno) wked HC1TS. (See DX Freqs.)

Feb. 19.
W7DYD hrd ZL2DS, CW, 1320PST. K6RNQ reports ZL1, 2, KH6, 1300-1430, and K6ZEH on BS at 1550PST.

Feb. 20.
W6BAZ wked W4RMU, K6RNQ wked W4NXA, ZL1DE, BJ, 2DS, hrd 1AHQ, ADP. W6BJI hrd ZL1,2.



"Well?"



The only Ham in the world currently holding 50 meg WAS and WAC certificates, W6BJI, Gilbert de la Laing, Fresno, Calif. Yes, that large jug works on six meters.

Feb. 21.
1010-1020, T12AFC hrd by W6OKR, K6-PXT, K6RNQ. W5?? Houston, Texas hrd 1048-50 by several Bay Area stations. (Es?) ZL1,2 wked from Bay Area 1355-1435. W5SFW wked ZE2JE, JV, HC1JW, FS, ZS3G, Hrd ZE2KL, VQ2PL.

Feb. 22.
W6BJI, W5SFW hrd ZS3G, K5CYK hrd ZS3G, ZE, ZS.

Feb. 23.
W7DYD, PAE, RPD wked TG9JW, W6, K6 hear work ZS3G for 3 hours. VP5RS wked by K6JKK (First 50 meg VP5-W?), K6JJU, K6TYX, K6TYW. K6RNQ, W6BJI wked ZL2DS, 1245-1300. W5SFW wked ZS3G, KP4ACH, FS7RT, VQ2PL (0630-1030PST). K5CYK wked ZS3G, KP4ACH. KH6IJ, UK, CNI. WØCNM hrd and wked KP4ACH, ZS3G, PJ2AO, KP4ABN, VP5RS, KH6UK, CNI, 0710-1300PST.

Feb. 24,25,26.
No DX reported.

Feb. 27.
Bay Area stations report W4GJO, W4-CQP, HZG 0910-1000.

Feb. 28.
K6PAV wked W4CQP 0855.

March 1.
0950 PST. K6HMK, K6SRC wked ZE2JE

March 2.
1000-1030, W7RT wked LU2FCD, 4DFN, 3EX, 9EV, W7PRW, JHX wked LU3EX. W7DYD hrd ZL1AHQ, 1DE, 1250 PST, wked 1AHQ, 1ADP, 1MQ, 1317-1325 PST. W6 to W1,2,3,4, 0830-1030.

March 3.
No DX reported.

March 4.
W5SFW wked HC1JW, 1130 PST, KH6PP, 1150 PST. W7DYD wked ZL2DS, 1DE, 1216-1235 PST. K6RNQ wked ZL1UZ, 1DE, 2DS, 3FR, 1220-1330 PST.

Cont. on page 28

WHAT'S NEW?

By
Bill Thompson W6RRI
11159 Washington Blvd., Culver City, Calif.

We made several checks on the new Viking Thunderbolt and it seems to be all that the ads say it is if not a little more. The Thunderbolt is a truly high power final that is more than capable 2KW P.E.P. in SSB service, over 1KW on CW and 750 watts when used as an AM linear. With all of this it is housed in a compact desk top unit that measures approximately 21" long x 12" high x 16½ deep, and a weight including power supply of 120 lbs. It is a continuous coverage rig with a range of 3.5 to 30 MC., (bandswitched grid and a roller coil in the plate circuit.

The drive requirements are easily met by most low power rigs as it needs from 10 to 20 watts to drive it too maximum ratings. The non-inductive grid circuit of the Thunderbolt requires no grid tuning, (when used with a Pacemaker or similar SSB exciter).

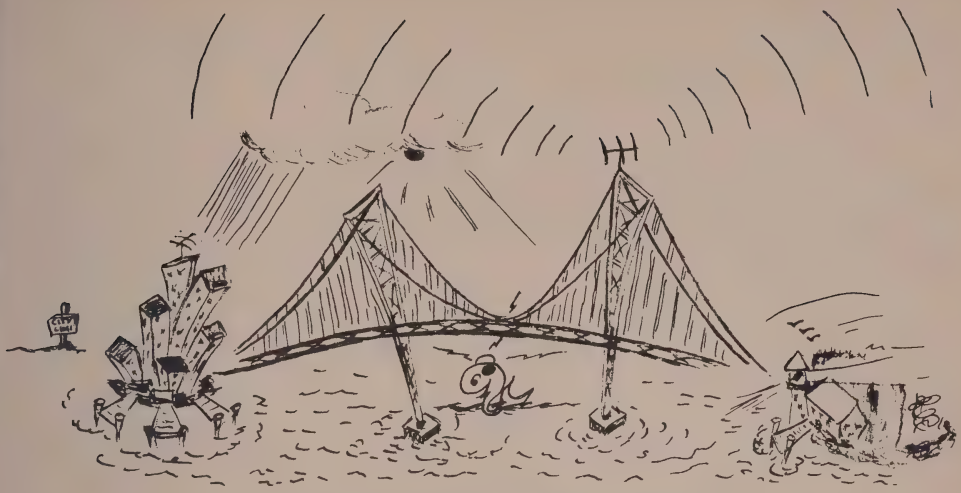
The output of this rig uses two 4-400 tubes in parallel and the pi section is designed to match 40 to 600 ohms antenna loads. There are two fans that cool the filament and plate seals of the 4-400's for extended tube life. As usual, the rig has had extensive TVI precautions built in, including double LL section filters on all leads, shielded meters and large numbers of by-pass condensers on the internal wiring.

All in all, this is a real powerhouse and from the ckecking I did, it does all that it should. With no pushing at all, it lit two 300 watt bulbs beyond their normal brilliance. This can do more than most rigs as far as power is concerned, as the meter shows an average of 1 KW input which means that the peak power is something over 2 KW in SSB service.

All this talk of power in excess of 1 KW is not an advantage that can't be used, as the FCC permits a maximum of 1 KW AVERAGE power input. In normal SSB service this results, with an average of 1 KW, peak power inputs in excess of 2 KW's depending on individual voice characteristics. The Thunderbolt is more than able to handle the high power levels and to my knowledge is the only amateur equipment that is available now that can run these powers, other than the Johnson KW. This means that you can have a signal 3 db louder than almost any other commercial ham equipment available today. Power requirements for the Thunderbolt are either 110 ir 220 volts, 60 cycle, single phase. It is available as either a kit or wire unit.

A note from Leo Myerson of WRL and he mentioned one of his new items that really should be a good one--a six-meter VFO and if this stands up to all the rest of his line it should prove to be most popular. These should be avail-in a few weeks.

There is one unit in the WRL line that is, so far as I know, the only equipment of its type available and should find good acceptance with the continued popularity of CW transmitter for the beginning amateur. This is the UM-1, Universal Modulator (high plate modulator) that can be used to modulate any CW transmitter in the 15 to 100 watt class. It comes with provision for metering, modulator cathode current and remote control of the unit. Input matches either crystal or carbon mike, and the output impedances match loads of from 500 to 2000 ohms. It is a truly universal unit, easy to put together as a kit or available completely wired. Don't pass this one up. You can't buy the parts for the cost of this kit.



Around The Bay

Chick Adelmann K6EYB
9 Ocho Rios Place
Danville, Calif.

I know good and well I'm not going to get much in the way of news from you Bay Area hams this month. I'll have to admit I'm getting to know more hams this way and find it very interesting.

Only one more month before I change QTH. The other day I went out and looked around to see what my antenna problem is going to be. I'm going to be on the slope of a hill, but looks like I'll be far enough away from the steep slope to get over it. While there I happened to notice a beam about five hundred yards away so I went over and found its owner, W6LW (Roy Colwell) digging out from the last flood. At least I'm going to have someone to talk radio to. Sure hope his key doesn't click. Roy is an old timer, retired Commodore of the Navy which is OK too since I am an old Navy man from way back. His 4-250A's have netted him 244 countries, (TVI permitting). He tells me this is a weak signal area so guess I'll have to be extra careful. Roy is a member of the Northern Calif. DX Club which gives me an in on the club. He is strictly cw (a man after my own heart). His rig is all home built, except for a 75A4.

Speaking of home brew rigs, I was surprised and somewhat disappointed to to hear W6BYB say that his parts business was slacking off. John, another old timer whose walls are plastered with certificates, opened up a shop a couple of years back and had the best available surplus and used parts in this area. A guy could take him his junk and trade for what he needed. John still has some good surplus and parts plus lines of new equipment he has added. He is now considering discontinuing his parts altogether. This is sad because for hams who like to build their own, this is just another source of cheap parts disappearing. All the more reason to get more Western Radio Amateur circulation here to promote classified ads.

I have been receiving the Hayward Radio Club's paper "The Chewed Rag", and enjoy it very much. I like the name.

The Mobileers in this area meet every month on the third Sunday for their mobile breakfast. In February they met at Ricky's in Palo Alto, March to Mr. B's in San Lorenzo, April ???. By golly I'm gonna have to go mobile yet. I can't hold out much longer but I'm still fighting the XYL's prejudice against antennas. Seems like somebody could build a good mobile antenna that didn't look like one.

Don't forget to send me the dope on your club activities, transmitter hunts, etc., etc. The new phone number is VErnon 7-6969. Cmon out and have a cup jo. Free walnuts, in season!

L. A. AREA COUNCIL OF AMATEUR RADIO CLUBS

By Howard Bowman W6QIR
2048 West 77th Street
Los Angeles

The Los Angeles Area Council of Amateur Radio Clubs held its regular meeting for the first quarter of 1958 on Jan. 28 in the employees' cafeteria of the Richfield Building, Sixth and Flower Streets, Los Angeles. Presiding was Chairman Howard Shepherd, W6QJW, and Secretary-Treasurer Dorothy Williams. W6QLM was on hand to report financial status and last meeting's action.

As of Jan. 28, and before crediting clubs with their 1958 $2.00 assessments, the Council treasury had a healthy balance of $290.46. Most Council member clubs have paid this assessment.

Officers for 1958

Elected Chairman for a second year was Howard Shepherd, W6QJW. Vice Chairman will be Ray Meyers, W6MLZ, and Dr. Sam Walker, K6IRY was elected Secretary-Treasurer.

ARRL Vice-Director Virge Talbott, W6GTE gave a brief report. According to Virge, all seems quiet on the ham front. FCC reports continued growth of ham ranks, but ARRL membership does not keep pace. Plans are progressing for the upcoming International Telecommunications Conference.

Virge also reported on a recent trip to Mexico. He said that there are about 2000 hams in Mexico, of whom about 700 belong to LMRE, their national ham organization. LMRE has a headquarters building in Mexico City, with a paid secretary and a headquarters station. Licensing is generally similar to that in the U.S., except that the theory exam is tougher and the code exam optional. LMRE has excellent relations with Communicaciones (their FCC). One problem: there exists no up-to-date list of Mexican hams, their calls and addresses, hence the Call Book may stop listing XE's, as has been done with PY's for the same reason. LMRE dues are 100 Pesos (about $8) per year.

Virge also gave dope on the foreign mobile licenses available for W and K hams to operate in XE land. If you wish to avail yourself of this privilege, allow plenty of time to arrange things. First step: send $8. to LMRE (P.O. Box 907, Mexico 4, D.F.) to buy a membership, and indicate in your letter your interest in mobile operation below the border. LMRE will send you your membership and all necessary forms, together with explicit directions written in English. He also commented that equipment is hard to come by and expensive in Mexico. No communications receivers are manufactured below the border. A U.S. made receiver when imported is subject to 100% AD VALOREM duty, plus an added duty based on weight. Result: a 75A4 costs about $2,000 U.S. in Mexico.

With no old business to be considered the meeting was opened for the introduction of new business. A representative of the Lockheed Employees' A.R.C. brought the Council's attention to the case of Kenneth Albrecht, K6BWD, of North Hollywood, who has had TVI problems and was the subject of a petition bearing 52 signatures which asked that operation of the station be suspended on the ground that such operation constituted a public nuisance. Also involved were threats to person and property. FCC reported that the station in question met all FCC operational standards. The area involved is subject to semi-fringe TV reception, which complicates the problem. A city attorney's hearing drew 26 of the complainants.

Fast work on the part of the Central Interference Committee cleared up all but one case in at least a semi-satisfactory manner, and no action was taken by the city attorney to declare the operation a nuisance. It was pointed out that householders, unable to put ham stations out of business through the FCC, are increasingly turning to city attorneys, zoning commissions, building and safety departments, and other municipal and county offices for relief, which introduces many new legal problems.

In the K6BWD case, it was moved that the Council pay a share of his legal expenses from funds remaining from the W6YMD case and expressly provided for such emergencies. After discussion, the original motion was withdrawn, and a substitute motion was adopted, authorizing the Chairman to appoint a committee to investigate the case. Subsequently, another motion was adopted broadening the powers of the committee to include other cases of a similar nature. The committee appointed consists of Lyle Farrell, W6KGC, Ray Meyers, W6MLZ, and Brown Wiggins, W6ONY.

Club Meetings

AEROJET RADIO CLUB, K6CLZ meets 2nd Mon. West Covina Civil Defense Hdq. Contact K6DQE, Dean Tyler at EDgewood 4-6211 for details.

AMATEUR RADIO CARAVAN CLUB OF NEW MEXICO, Albuquerque. All mobile club, meets ea. Wed. 7:30 p.m. MST on the air 29.6mcs, followed by activity at 8:00 p.m. 29.6mcs monitored; visiting hams urged to check in and participate.

ASSOCIATED RADIO AMATEURS of Long Beach meet first Friday ea. month. Signal Hill City Hall. Hill and Cherry.

BAY CITIES AMATEUR RADIO CLUB: meets every Wed. eve. 7:30, room 55 Santa Monica High School, 6th and Pico Santa Monica.

CATHAY RADIO CLUB: meets 2nd Fri. each month Cathay American Legion Hall 8:30 p.m. 1524 Powel St., San Francisco.

CITRUS BELT AMATEUR RADIO CLUB meets every month 1st Fri. 8. M. IOOF Hall in Colton. Rod Davis, Pres.

CORONADO RADIO CLUB: meets 2nd & 4th Fri. at the Red Cross Bldg.

COACHELLA VALLEY AMATEUR RADIO CLUB meets 3rd Wednesday ea. month at 45680 Deglet Noor St., Indio, Calif.

CRESCENTA VALLEY RADIO CLUB meets 2nd Tues. ea. month at La Canada Elementary school at 8 P.M.

DOWNEY AMATEUR RADIO CLUB meets 2nd & 4th Tues 8 P.M. at the new Imperial School. Imperial Highway between Downey Ave. and Paramount Blvd.

EAST BAY RADIO CLUB meets 8 p.m. 2nd Fri. each month at the Cornell School. Albany, Calif. Club call W6CUS.

EAST VALLEY RADIO SOCIETY meets 2nd & 4th Fri. 8:00 p.m., LaPuente City Hall Council Chambers.

EVERGREEN 50 & UP SOCIETY meets Fri. eves. 847 E., 94th St. Seattle, Wash. contact Bill McCafferty W7UZB for information.

FRESNO AMATEUR RADIO CLUB meets 2nd Fri. each month at the Pacific Gas & Electric Co. Building Auditorium.

FULLERTON AMATEUR RADIO CLUB INC. W6ULI meets in American Legion Hall 2nd Wed. of each month.

GLENDALE "ZERO BEATERS" meets the 1st and 3rd Thurs. ea. month Yosemite Park playground, La Roda and Yosemite Drive, Eagle Rock. 8 P.M.

GOLDEN EMPIRE AMATEUR RADIO SOCIETY INC. (GEARS) meets every 3rd Fri. at Region 3 Civil Defense Hdq., 7th & Cedar St., Chico, Calif.

HAYWARD RADIO CLUB meets second and fourth Fridays at Hayward Airport North end of field.

HELIX RADIO CLUB meets 1st Fri. ea. month at Gillespie Field CD Hdq., El Cajon, Calif.

HUGHES AMATEUR RADIO CLUB meets 1st and 3rd Wed. ea. month at Centinella and Jefferson in Culver City, Call Rod EX 7-9011 for information.

INGLEWOOD AMATEUR RADIO CLUB meets 2nd and 4th Friday ea. month at 105 Grevillea, Inglewood.

LEWIS COUNTY AMATEUR RADIO CLUB, (ARRL Affil.) meets 1st and 3rd Monday in County Court House, Chehalis, Washington on US 99, 8 pm. You are welcome W7NTO.

LAGUNA BEACH AMATEUR RADIO CLUB meets 4th Friday ea. month at City Hall, Laguna Beach.

MIKE AND KEY CLUB meets 1st & 3rd Tues. ea. month at the Encanto Community Center 65th & Broadway, San Diego, Calif.

MOBILE RADIO CLUB OF SOUTH GATE: meets 1st & 4th Thurs. ea. month at 10131 Mallison Ave. South Gate 7:00 p.m

MOJAVE DESERT AMATEUR RADIO CLUB meets 2nd and 4th Sundays at 2:00 P.M. Northrop Recreation Bldg., Palmdale.

MT. DIABLO RADIO CLUB meets third Friday, 8 p.m. Contra Costa J. C. in Concord.

MOUNTAIN VIEW AMATEUR RADIO CLUB meets 1st Thurs ea. month at the new Central School Cafetorium, 14741 E. Central Ave., Baldwin Park, 7:30 P.M.

NORTH BAY AMATEUR RADIO ASSN. meets 1st Fri. 8 p.m. Red Cross Bldg. 508 Alabama St., Vallejo, Calif.

NORWALK RADIO CLUB meets 2nd and 4th Wed. at Los Alisos School Auditorium, Maidstone and Excelsior Drive.

OAKLAND RADIO CLUB meets 1st Fri. ea. month 8 p.m., 906 Fallon St., Oakland, Calif.

ORANGE COUNTY RADIO CLUB meets 3rd Wed. ea. month at 12502 Placentia, Santa Ana.

PACIFICO RADIO CLUB K6BAG meets every 2nd Sunday ea. month 9048 W. 18th St., Los Angeles. Contact W6NJU.

PALISADES AMATEUR RADIO CLUB meets 2nd and 4th Tues. ea. month at Rustic Canyon Club House, 601 Latimer Rd., Santa Monica Canyon.

PALO ALTO AMATEUR RADIO ASSOCIATION meets 1st Fri. ea. month at Menlo Park City Hall, Menlo Park, Calif. 8 p.m.

PASADENA RADIO CLUB meets 2nd & 4th Fri. ea. month 8:00 p.m. basement of Altadena Sheriff station 780 E. Altadena Dr., Altadena, Calif.

RIO HONDO RADIO CLUB meets 1st Sat. of the month at Palm Park, Whittier.

RIVERSIDE COUNTY AMATEUR RADIO ASSN., INC. meets 2nd Fri. ea. month 8 P.M. Arlanza School, Riverside (near Rohr Aircraft plant)

RAMONA RADIO CLUB meets 2nd Mon. ea. month, Fire House, 605 S. Del Mar, San Gabriel.

RYAN AMATEUR RADIO CLUB meets 1st and 3rd Wed. 7:30 in Balboa Park.

SACRAMENTO AEROJET RADIO CLUB meets 2nd Mon. ea. month at Aerojet Nimbus plant site. Club call W6IJK

SAN BERNARDINO MICROWAVE SOCIETY meets 1st Thurs. ea. month at Chaffey College, Ontario.

SAN DIEGO AMATEUR RADIO CLUB meets 1st Mon. ea. month American Red Cross Bldg., 3650 5th Ave., San Diego.

SAN DIEGO DX CLUB meets 3rd Tues. each month at various homes. Call W6BZE or W6LRU AC 2-2933 for info.

SAN FERNANDO VALLEY RADIO CLUB W6SD meets 1st & 3rd Fri. ea. month at the American Red Cross, 14717 Sherman Way, Van Nuys, Calif. at 7:30 p.m.

SAN FRANCISCO RADIO CLUB: meets last Wed. each month Laguna Handa Club 7th Ave. & Dewey St., San Francisco.

SAN GABRIEL RADIO CLUB INC. W6QFK meets 1st Tues. ea. month at Bowling Green Club House, Arcadia Park.

SAN GORGONIO PASS AMATEUR RADIO CLUB meets 2nd Monday ea. month 700 Magnolia Ave., Beaumont, Calif.

SANTA BARBARA AMATEUR RADIO CLUB meets 3rd Fri. ea. month 7:30 P.M. Recreation Center. Anacapa and Carrillo Sts., Santa Barbara. P.O. Box 273.

S.C.A.R.S of Redwood City, Calif.: meet the 4th Monday 8: p.m. in Veterans Memorial Bldg. 1455 Madison, Redwood City. All interested in ham radio invited.

SILVERADO SIX SHOOTERS meets last Thurs. of month at Vets Memorial Bldg. Napa, Calif. Net night Tues.

SOUTH EAST AMATEUR RADIO CLUB meets 3rd Fri. ea. month 8 P.M. at South Gate Civil Defense Bldg., corner Post and Victoria.

SO. CALIF. DX CLUB meets 1st Thurs. each month, Cliftons Cafeteria. 8th & Spring Sts. Los Angeles, 8 p.m. 2nd floor.

SOUTHERN NEVADA AMATEUR RADIO CLUB meets 8 p.m. 2nd & 4th Fri. each month at auditorium, Victory Village, Henderson Nevada.

TRI COUNTY AMATEUR ASSOC. meets 2nd Wed. ea. month at Westmont Community Center, Pomona.

TWO METER & DOWN RADIO CLUB meets 1st Wed. ea. month at Plummer Park, Long Hall, 7377 Santa Monica Blvd., Los Angeles..

UNITED RADIO AMATEUR RADIO CLUB meets 3rd Fri. ea. month at Wilmington Hall, 435 N. Neptune, Wilmington.

Continued on page 35

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By
Ed Marriner W6BLZ
528 Colima LaJolla, Calif.

San Diego Zero Beat

A few items trickle in for the column now and then so we will get started. First congratulations to Mr. Fred Nickle, W6CKZ who retired after 50 yrs of Wireless. Probably many of the old timers will remember Fred. His father who was a telegraph operator before him, taught Fred the code when he was just a whisper of a lad six years old. In 1911 Fred joined the U.S. Navy as an electrician, there was no such thing as a radio operator rate in those days. After a cruise with Uncle Sam, Fred signed on with Federal Telegraph on the Australian run. All this took place during the arc and spark years 1915 to 1917 on the old SS Sonoma, SS Ventura and SS Sierra.

Along about that time WW 1 came along and he went back into the Navy operating at NPL the same place he left in 1914. Chollas Heights had now been added to the San Diego station. Fred stayed with the Navy until 1930 and retired the first time and worked for the SD Police Dept and Solar Aircraft. After 5 years he went back for some more Federal time. Not in the clink however but at North Island. When the Navy Sound Lab was set up on Pt. Loma Fred was one of the first to work there. he stayed until Feb. 1, 1958 when he retired. Best of luck to you Fred.

Had a visit from W6DLY, Guy Martin, Sales rep for Micro-Dot Cable Co. up Pasadena way. Guy is one of the upper class DX hounds if you look on the list. He tells me that W6FXY has joined the SD gang by moving into a ranch near Escondido. Working out fine. Avocados, Oranges and DX.

"Topi" OH3OD, Hamennlinna, Finland, wants me to pass the word along they hear W6 SSB stations on 80 meters around midnite our time. They will be happy to try to work any SB stations by coming on the Frequency using CW. Topi is 31 years old. There are about 1200 licensed amateurs in Finland. The maximum power is 50 watts except for special licenses 150 watts. All equipment is home made. They are having TVI problems there also. Topi enjoyed a copy of our magazine and would like to see more American Radio magazines.

OH3OD Topi

The Rinky Dink Club held their monthly outing at Brown Field down near the Mexican Border. A good steak sandwich and a pot of beans was had by all.

Cont. on page 31

EDITORIAL

Cont. from page 2

you assign an equity somebody is liable to get stuck all over again for a batch of new unnecessary hidden fees. Reasoning that Joe was stuck regardless of who's name was on the bank note we both walked out and made our own formal bill of sale and transfer of title, etc. The insurance was changed on the basis of a phone call backed up with a letter by Joe. The net result was that we saved $17.00.

It might be wise in purchasing equities to follow up on every angle before having the middle man change your paper for you. He is going to charge a good fee for his troubles and you might not get what you think after all. If in doubt, call your lawyer. He might charge less than the paper man for better service. Another wise move, when you purchase something make sure the note(and insurance) can be assigned...it might come in handy someday.

CU, Art, W7NVY, OO, OBS

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IMPEDANCE CONTROL

Cont. from page 5

such a way that it is *proportional to the output audio voltage*, we term such feedback as being *voltage derived*. Feedback dervied from points 2 and 4 in figure 2 is voltage derived. If feedback is obtained from the output circuit in such a way that the *feedback voltage is proportional to the output audio current*, we have *current derived* feedback. Feedback derived from points 1 and 3 is *current derived feedback*.

The significance of feedback derivation is simply this: voltage derived negative feedback lowers the output impedance of the amplifier. Current derived negative feedback raises the out put impedance of the amplifier.

Now let us investigate the two methods of applying or returning feedback to the input of the amplifier. If feedback is returned in such a way that it acts in *parellel* with the input signal, we say that the feedback is shunt applied. Conversely, if the feedback is returned in such a way that it acts in series with the input signal, we have *series applied feedback*, By connecting the feedback path to points A or B, we provide shunt applied feedback. Series applied feedback is obtained by returning feedback to points C or D.

The significance of feedback application is simply this: shunt applied negative feedback *lowers* the input impedance. Series applied negative feedback *raises* the input impedance.

Figure 3 is a table depicting the input and output impedance effects of various feedback connections. It is readily seen that any combination of of input and output impedance is attainable by employing appropriate connections. This is all this article will undertake to show; the subject is inexhaustible and there are many practical aspects of design which enter in various degrees of importance depending upon a great number of factors. However, the 'more or less' information provided by table 3 is of fundamental importance whether the amplifier is designed through use of Nyquist charts or by the more intriquing cut n' try technique.

FEEDBACK DERIVATION	FEEDBACK APPLICATION	CIRCUIT CONDITIONS	FEEDBACK DESCRIPTION	INPUT IMPEDANCE	OUTPUT IMPEDANCE
-		T2 CONNECTED FOR:			
1	A	NO PHASE REVERSAL	CURR. DERIVED SHUNT APPLIED	LOWERED	RAISED
1	B				
1	C		CURR. DER. SERIES APP.	RAISED	RAISED
1	D	PHASE REVER			
2	A	PHASE REVERSAL R3,4 SHORTED OR BYPASSED	VOLT. DER. SHUNT APP.	LOWERED	LOWERED
2	B				
2	C		VOLT. DER. SERIES APP.	RAISED	LOWERED
2	D	NO PH. REV.			
3	A	PHASE REVERSAL	SAME AS 1-A	LOWERED	RAISED
3	B				
3	C		SAME AS 1-C	RAISED	
3	D	NO PH. REV.			
4	A	PHASE REVERSAL R3,4 SHORTED OR BYPASSED	SAME AS 2-A	LOWERED	LOWERED
4	B				
4	C		SAME AS 2-C	RAISED	LOWERED
4	D	NO. PH. REV.			

Fig. 3. Effect of Feedback Paths on Input and Output Impedance

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9mfd 1000vdc Oil Condensers 1.00
.5 10000 volt Condensers 5.00
4x8 600 vdc oil condensers 1.50
1000 & 500 ufd 10 volt condensers 1.50
8mfd 1000vdc Sprague Oil 1.50
J-44 Keys, New 1.50
Ceramic slug tuned FM coils ..... .25
Throat Mikes ..... .10
18 terminal barrier strips ..... .25
Micro Switches SPDT ..... .25
S-6 Bulbs 115v ..... .12
T-17 Mike Switch ..... .25
3 circuit 10 pos. stepper relays 4.95
BK Relays 1.50
B-1019 Selenium Rectifiers ..... .25
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DX Report

Cont. from page 12

zones and 102 countries on SSB !

LL4AAP should now be home at W6GHM.

The Orange Amateur Radio Assn will hold it's 21st annual convention in Salem on May 3rd/4th. For details write W7LAA.

KV4AA was happy to log recent visits from K2CKX, K2CJN, W8EWS, K2OPT, K4KCY, K2OMP, W4YWX, W8SZS, K2QLX, W1SGC and W1CWO.

Brazilian Naval Academy Contest

As part of festivities of Brazilian Naval Academy foundation (150th. anniversary), that will be commemorate on May, the 5th, the N. A. Amateurs Radio Club will realize an international contest, in accordance with:

1. Period: 12hs GMT on May, the 3rd. to 12hs GMT on May, the 5th. 1958.
2. Bands: 40 and 20 meters
3. Emission type: A3.

To each amateur radio that makes a QSO with PY-1BJN (official station of N.A.A.R.C., affiliated to L.A.B.R.E.), as states above, will be envoyed-a special commemorative QSL.

ISRAEL MARATHON

To celebrate the Tenth Anniversary of the Independence of the State of Israel, the Israel Amateur Radio Club under the auspices of the Tenth Anniversary committee, is inaugurating a world wide contest-marathon, which will be known as the "Israel Marathon".

The Rules

1. Elegibility

Licensed amateurs in all parts of the world, are invited to participate.

2. Object

Foreign amateurs are to try to contact as many Israeli stations as possible during the marathon.

3. Frequencies

frequency bands on which contacts can be made are the authorized amateur frequencies in the 3,5,7,14,21,28mc band.

4. Contest Period

The marathon will start at 00.01 hours GMT on April the 24th, 1958, the Independence Day of the State of Israel, and ends on October 31st, 1958 at 23.59 hours GMT.

5. Valid Contacts

any two-way contact between an outside and an Israeli amateur station, using any type of transmission. Each Israeli

Cont. on page 26

the EDITOR'S MAIL

Dear Sir:
I thought the rest of the gang would like to know that we have set aside Monday of each week for special parties. Here's a thought you guys might consider. You can get as little as forty hams together and rent the rink for the evening. We supply a full staff including: Organist, snack bar girl, skate man, floor guard etc. Call the Grove Rollerway at Jeff. 7-7707 in Garden Gr. Frank expects to be back on the air and will be shouting from the Rink.
Frank Hemerlein, W6CYW

Dear Art:
I feel you were way off base on your recent editorial about alleged "axe grinding". From where I and a lot of other amateurs sit its about time someone went after the abuses committed by a few of the high power boys. Well founded rumors have been floating around radio clubs for years about certain KW boys who consistently run over the KW. The remark is frequently heard that these abuses are almost "impossible to prove".
Admittedly, for years the American radio amateur has been admired "because he polices the air himself". ARRL has condoned and recommended the practice for years. Now tell us, ye ed., who is going to do the policing if we don't? And tell us further, what KW operator wouldn't be proud to have even the FCC step into the shack "if he were operating in keeping with good engineering practice?" This bash about "jealousy" is for the birds. And you forgot to tell us: who were the four hams investigated and what was the result in each case?
Come now, were you one of the four?
PS. No, I did not do the snitching!
Bill Jones

OK. Alright if true (what abuses). What exactly did these rumors say? Not true. True. FCC, but...Several. Disagree. Without their express consent I decline to say, perhaps we will have a first person article on this soon. No, I'm a 60 watt man. But you do agree its "snitching". Ed.
PS. What's your call?

Dear Sir:
I am now a subscriber. Please advise what it will cost me for an additional 10 year subscription. For 20 years? Postal card reply sufficient. Thank you.
Roy A. Lundquist W7OG

Dear Ed:
Would it be possible to get a note in your magazine about the Annual Installation Dinner of the United Amateurs club of Wilmington? I note that your magazine is well read among hams in the harbor area.
The dinner is to be held at the Wayfarer's Restaurant 2230 Pacific Coast Hwy, Lomita Calif. on Friday evening May 16 at 6:30 PM. Speakers, prizes, etc. Tickets available at Long Beach Radio Stores (Scotts and Lyndes) as well as all officers or by listening on 3995 of an evening two about six mobile stns that have tickets.
Bill Adams, W6ANN

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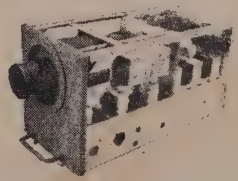
400 relays, 2Z7586-33
230 Relays, 2Z7585-69
1600 Jacks 2Z5598-24
500 Panel Lights 4C9971/A2.1
60 Coils RF 3C303-99
1 Power Supply PP114A/VRC3
12 C-911/ARC27
6 C-906/ARC 27
350 Reactors 3C315-156
4000 Reactors 3C315-126
4000 Switches SW145
11 Transformers 2Z9621-233

TEST SETS
TS No. 14 15A 34 35 56A 62 67/ARN 78B 89 102 117/GP 173 182 189 218 264 268 268C 277 299UP 345 673/U 794 AFB LAE OAP IE36 UPM/7 UPT/3 F200 1222 TS69 TS70



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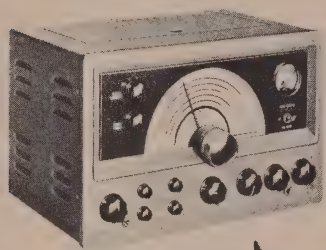
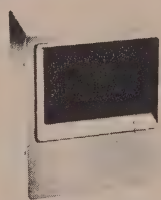


RME 4350A RECEIVER AND MATCHING RME 4302 SPEAKER



performance. This one word best explains why experienced hams everywhere rate RME equipment as first choice. Ask around—ask the most experienced hams you know; you'll find most recommending RME equipment.

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DX REPORT

Cont. from page 24

station can be contacted once on every band during any 24 hours. Signal reports are to be exchanged, the minimum reports are to be RS 33 for telephony and RST 338 for telegraphy.

6. Scoring

Ea. valid QSO on	3,5mcs	scores	3	points.
" "	" " 7	"	"	2	"
" "	" 14,21,28mcs	"	1	"

7. Final Score

The total number of points on all bands are to be added.

8. Contest Winners

a) Amateur radio stations from each continent returning the highest valid scores will be adjudged winners of the contest.

b) The first 3 amateur stations from each country, submitting the highest score.

c) The Israeli station most mentioned in the logs received from outside.

d) The first 10 Israeli stations most frequently mentioned in the logs received from outside.

9. Prizes

1. The first prize for each continental winner (6) and for the first Israeli station, will be a cup offered by the State of Israel, on which the name and the call sign of the winner will be engraved.

2. The second prize for each continental winner and the Israeli station will receive an artistic book on Israeli Art.

3. The first 3 highest scorers from each country and the first ten Israeli stations will receive a Diploma. Every station submitting a log, will receive a Participation Certificate.

10. Station Logs

Stations logs extracts with claims must reach the Israel Amateur Radio Club on Jan 15.

11. Prize Distribution

Prizes will be distributed on the 11th Day of Independence of the State of Israel, and will be made by a representative of the Government of Israel wherever possible.

12. Judging

The decisions of the Judging Committee will be final and no appeals will be considered.

The Address of the Promoting committee is Israel Amateur Radio Club, P.O. Box 4099, Tel Aviv, Israel

For "Action Want Ads"
TELEPHONE Gilbert 8-2119

UNSOLVED PROBLEM

Cont. from page 9

the man go to answer the door. The Radio Interference man entered, arms waved and the City man walked over to the TV set; then the noise stopped in in the car receiver, as he yelled out the door, 'thats it'. The noise resumed as he returned to his car. Getting in he explained, 'I didn't give the man a ticket, he threatened to throw it in my face. Furthermore he said he had an attorney who told him he didn't have to get any TV set fixed. Said the set was made before May 1956 and no one was going to make him fix it'.

'Well what are you going to do about it?' asked Jim. 'Don't rightly know, haven't had much luck getting the dealers in town to do anything about fixing sets like that. I guess this is a case for the FCC - my boss doesn't want to get the City tangled up in any suit'.

The next afternoon as Jim was watering the lawn, chewing on a cigar he looked across the top of his brick fence and wondered if it would provide any protection from his neighbor. At that moment he saw the top of a loop passing along on the other side of the fence. Taking a double look he decided it was really the FCC Inspector out to investigate: he was walking up to the house across the street with a bunch of papers in one hand and a small portable radio and TV receiver in the other.

Jim was purposely now hoeing weeds on the outside of the fence. When the unspector came out and approached his car. Jim was waiting, scraping the mud off his shoes. After introducing himself, Jim asked the man, 'well what do you think of the situation?' 'Well', answered the inspector, looking at the TV set he was carrying, 'I don't have any accurate equipment to measure micro-volts per meter. However I could pick up their set buzzing down at the corner and thats good enough for me'. 'Well what are you going to do about it?' 'Don't know for sure. Haven't had much luck getting the dealers to do anything about a situation like this. I gave the people the FCC form though, but don't know if it will help very much. They claimed they tried to get their service man to fix it. He put in a line filter and an antenna filter but apparently that didn't help much. The service man wants 30. dollars to fix it up right - the people don't want to pay it - feel the manufacturer should fix it.'

The inspector getting in his car driving away mumbled, 'Just don't know'. He left Jim standing there kicking mud from his shoes - still musing, 'Why would anyone want to watch TV at six-thirty in the morning, I wonder if this problem will ever be solved?'

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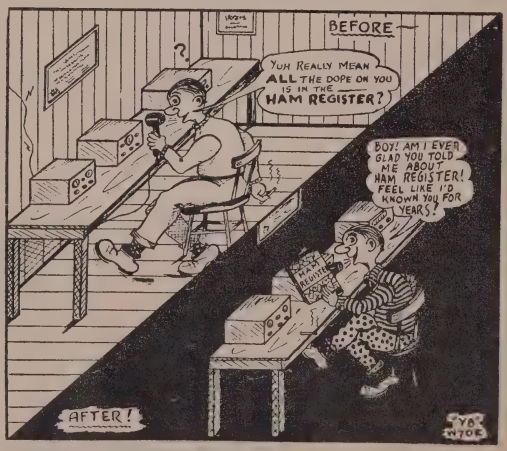

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VHF Record

Cont. from page 15

March 5.
W7DYD hrd KH6UK, PP. K6RNQ wked ZL1-AHQ, ADP, MQ, 1300-1400. KH6PP wked W5VY, W7VOG, LU9MA, hrd DZR, Philippines, 49.65 s9 four hours.

March 6.
No DX reported.

March 7.
HC1JW wked W5, K5 for four hours around noon, PST. K6RNQ broke round table between ZL1MO, MQ, UZ in 3 minute opening.

March 8.
W6BAZ wked ZL1AHQ.

March 9.
KH6UK wked VK5, 6 on TE, 0130-0400 PST, JA1-Ø on TE BS 0330-? PST.

March 10.
ZL1,2 wked in Bay area, 1300-1315.

March 11.
K6ERG wked K6RNQ on BS, 1310. K6RNQ hrd ZL weakly, 1245-1330 PST. W7DYD hrd VE7AFB, W7AAD on aurora, 2120 PST.

March 12.
W5SFW wked LU3DCA, LU9AT, CX2RE, CX-2LE, (See DX freqs.), LU9EV, HC1JW all S9 plus reports. W6BAZ wked LU9-AT, 9MA, 5ACA, CX2RE. K6RNQ, W6BJI report CE2AX, LU8MAO, W4IKK(BS). W7-ACD/7 Arizona wked LU9EV. All preceeding 0700-0900 PST. ZL1AHQ, BJ, DE, 3QK wked into W6, K6 1230-1400 PST. ZL2DS wked K4HDX(CW) at 1415 PST.

March 13
ZL1,2 to W6, K6, 1230-1400.

March 14.
No DX reported.

March 15.
1230-1430, ZL1,2,3 wked by K6, W6, W7. W6BJI wked VK4NG at 1648 PST (first VK-W 50 meg?). E skip over entire western USA 1530-2100 PST. K6ERG wked VK4NG, VK4ZAZ, VK4ZBF, VK4HD 2050-2130 PST. (TE?) W6BAZ, W6-AJF also wked VK4NG. VK4NG told ERG that he had been copying W5,6,7,Ø since 1600 PST. W0CNM was strongest signal hrd..prabably E skip to west coast. F2 rest of the way, to bad Bob. K6ERG, W6BAZ, W6AJF, K6RNQ hrd Spanish commercial harmonic 50.7 2215-2230, peaking 120 degrees.

DX FREQS

(Tnx K6RNQ, K6ERG, W5SFW)

ZE2JV	50.030	TI2AFC	50.110
ZE2JE	.120	VP5RS	.EE0
[illegible]	.040	TG9JW	.330
[illegible]	.010, .000	ZL2ABX	.400
[illegible]	.012	ZL4GY	.080
[illegible]	.190	ZL1AHQ	.008
KP4ACH	.040	ZL1ADP	.150
FS7RT	.100	ZK1BS (ZK2AA)	
CX2LE	.200	hi in band	
ZS9??	.400	ZL3FR	.030
OD5AC	.450	VK4NG	.280
CE2AX	VFO, .050-.150	VK4ZBF	.400
LU9AT	.090	VK4HD	.010
LU5ACA	.100	LU8MAO	.040

IT IS SAID

Phil, 5SFW tells us that OD5AC is working into ZE2 land daily, with 60 db over nine signals. He runs a 6N2, and is a good bet for Asia. Someone send him a lower rock though...450.. Whew- FF8AP works into South America every night. VK4NG told 6BJI that he has worked 465 JA's. And you think you have QSL problems. KH6PP has WAJA, but needs some cards. WØCNM is moving soon, but not without glory. Bob's QSO with PJ2AO gives him WAC, and he already has WAS. W9DSP worked PJ2AO for his WAC in January. DU stations are on every Sunday morning, their time, looking for DX. The South African Radio League awarded Dudley, ZE2JE a cup for his first W-ZE contract just a year ago (With W8LPD). W7DYD is checking with VK4XJ nightly for six meter signals. Probably make it before this appears in print. The March 9 early AM (KH6 time) opening from KH6 to VK5, 6, and JA1-Ø has some of us wondering what goes on when we hit the sack here on the coast. Perhaps we will work JA on TE BS some evening when VK4 is coming in. K6RNQ has worked all ZL call areas, for the first ZL WAS from W land 50 meg style. KH6UK is rebuilding his two meter rig, and antenna. Frank, W6-AJF is setting up for 2 meter moon bounce. Humm? W5VY is the only 5th call area 50 meg man currently working into ZL land. ZL2DS notes that he had worked 31 JA stations in a week. K6RNQ and K6ERG work W7MAH on knife edge nightly. VK2 stations worked into JA after the magnetic storms Feb. 11, and March 11. VK0AA is on Saturday and Sunday 50.190, with code wheel, 2-3 PM, his time I guess. ZL1UZ lists his DX as JA, KH6, W, VK, VK9, VR2, ZK2, ZL. So much for this month. E skip should be starting, while ZL, VK, and LU DX will most probably be on the last leg as you read this. What a Spring.

Six meter DX continued in an unprecedented manner, with openings to ZL-VK and South America increasing in frequency and coverage. Sporadic E "short skip" was noted to western Texas and eastern Arizona from Northern and Central California around 2000 PST March 17, with other Es noted in small patches on March 16,18,19 and 20. March

20; ZL1,2,3,4, VK4XJ(50.190) worked by K6ERG, W6BAZ, BJI, AJF, K6RNQ, EDX. VK9BW(50.350) was heard at 1726 by K6-EDX. March 21; HC1FS heard by W6BJI, K6EDX, working WØ,W5, 1200 PST. March 22; W6BJI notes LU9MA, LU1DJC logged on and off 0930-1220 PST. LU9MA was working W5,6,7,Ø. March 23; W6FZA reports hearing W7MAH on Pacific BS, 1230 PST. March 24; Peru, IGY stations strong on F2(no flutter) 1220-1300, no South American DX noted. FLASH: KX6AF (W6NDP op) is now on 50.001, 20 watts, phone and cw every day, 1200-1400 PST. ZL1DE reports working Ken on March 19th. ZL1WW reports working VK9,KX6,JA,VK4 daily on F2. (Plus W,K). Overall conditions seem to be disturbed, as evidenced by WWV and WWVH sending U and W for many days. AS WE MAIL: W6BJI received QSL card from VK4NG for March 15 QSO, listing WØ,W7,K7 calls heard 1930-2030 PST. March 15, K6ERG,MMT,PXT,W6RLB,WWD worked 2050-2130, and later in the day, he heard JA stations working LU,JA,KH6 AT THE SAME TIME!

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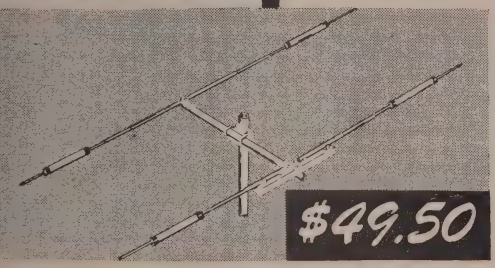

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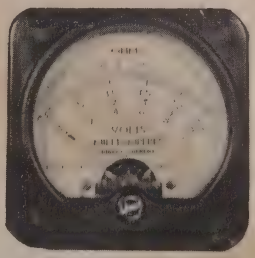

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SAN DIEGO ZERO BEAT

Cont. from page 21

Visiting the North Shores Radio Club I was in for a surprise. They held a raffle, such goodies as a Mercury Condenser vintage 1919, 212D ala 1930, 801's, acorn tube sockets etc, real useful stuff for Harold Greenwood the old wireless set collector. The Club voted to raise $300. to buy an emergency house trailer radio station. The problem of how to raise the money has not been solved. Do you have any ideas for them?

Someone told me there was a rumor down SD way to the effect that one Johnny griggs W6KW, is on a diet and is down to 295 lbs. How about it John do we hear correctly?

K6HQJ, John Greer, is now doing a very fine job as TVI chairman for SD. This has taken a burden off many shoulders and is appreciated. The Upper Ten Club let him off paying his dues for one year. One of the fellows asked John how he was handling TVI. He said, "I can tell you about one case. I just turned the complaint over to the General Class license who gave the Novice his ticket."

Here is some hot and welcome news to ARRL members. It looks like a sure thing, the 1958 South Western Div. Convention is now sewed up for San Diego. If you have any free gifts or suggestions drop a line to Mr. Hal Helms, K6JCX, 3705 Coconino Court, San Diego 17. Hal did such a wonderful job as Chairman of the preliminary survey that he was given the full time job. K6JPI, W6YXU and W6LYF are going to advise him. If you can help run any part of the convention drop him a card.

At the Council meeting Walt Joos, W6EKM mentioned there were 32,000 new licenses issued during 1957 which is more than were on the air in 1930. Most of these tickets were novices, 26,000, 5000 technicians. The ARRL now has 65,000 members.

K6BPI Tony Mozier asked that we spell his name right. You fellows in the SD area probably noticed that we lost our good advertisers Bob, Cecil and Bruce at Tel-Rad which has graced our back for so long. Now you will have to look in the phone book for the number instead of on the back of .....well, West Coast Ham Ads. Sorry to see you go fellows, hope someday you will be back on the cover.

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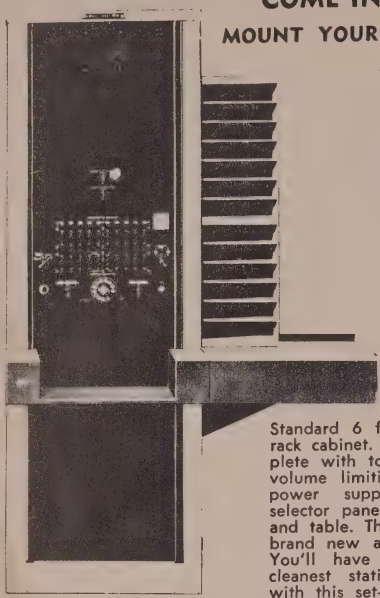

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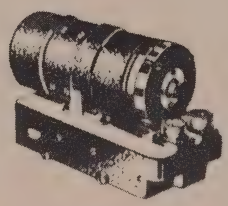

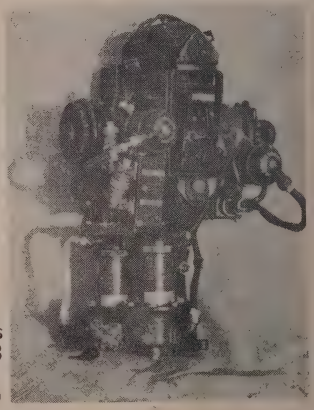

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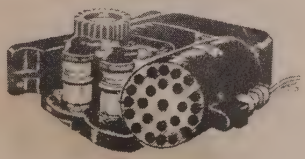

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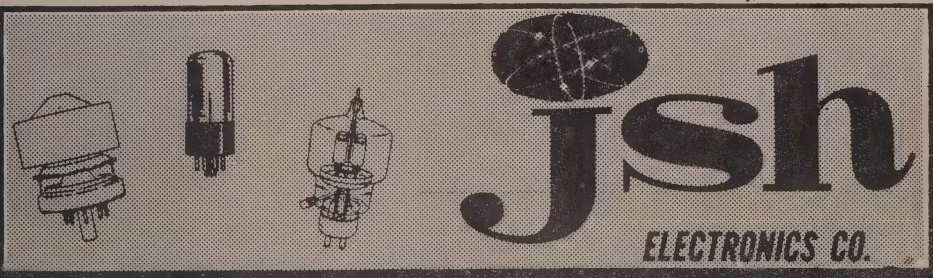

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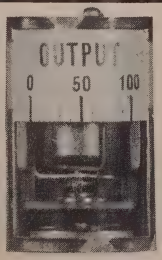

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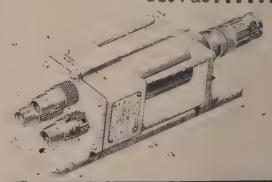

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Continued

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WEST VALLEY RADIO CLUB meets at Whitsett Hall, 14955 Saticoy St., Van Nuys, Calif. 1st and 3rd Fri. at 1930.

WESTCHESTER AMATEUR RADIO ASSN. K6EBN meets 1st and 3rd Mon. ea. month at 8301 Dunbarton Ave. Code classes every Mon. 7 P.M. Contact W6MTQ for details ORchard 7-1012.

WHITTIER 50 RADIO CLUB meets 2nd Fri. ea. month dinner 6:30 p.m. at Oak Room, Hoover Hotel; meeting at City Hall, Civ. Def. room, at 8:30 p.m.

Y. L. R. L. meets 2nd Sat. each month 12:30 Schabers Cafeteria, 720 S. Hill St., L.A. No meetings in July or August.

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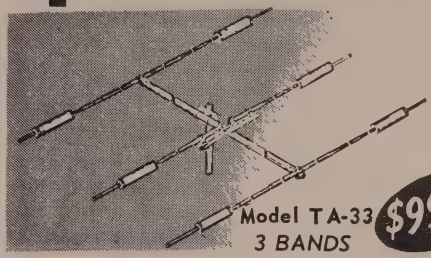

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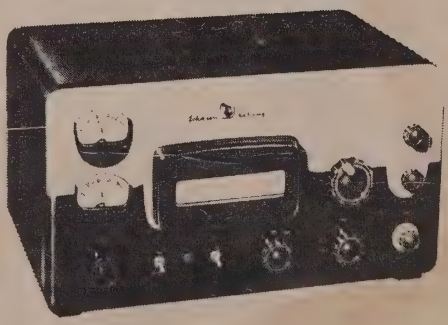

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FOR SALE: Quality 2 meter converter, works from 7mc IF. This is a hot converter $25. E.R. Lee. AT 6-8340. After 6. PM.

FOR SALE: Gonset Communicator III push to talk. 3 months old, 4 crystals. Twin ten, 2 meter beam. Mobile craft mobile antenna, microphone. $250. KN6IVW. Maurice Lightner. ED 8-7133 or CApital 5-6666.

FOR SALE: Viking Valiant, 6N2, KW tuner, AF67, C-310-2 VFO, C-310-B, NC-300, tower, handbook 813 transmitter, several chokes, condensers, filament and power transformers, tubes, meters, etc. Self addressed stamped envelope for list. WANTED: UTC S-37, and S-38. Bill W6VPO. 10815 Rose Ave. Ontario, Calif. LY 8-2292.

Central Electronics 458 VFO factory wired $20. 4 type 416B tubes (W.E.) $10. each or 4 for $35. T23/ARC5 2 meter Xmtr less tubes $9. Art Johnson. K2POA. 29 Boone St. Bethpage, New York.

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New 2 meter Communicator II, BC 221, 3 pc. leather sectional good for den or office. Best cash offer or will trade for Shopsmith Mark 5, drill press, table saw, misc. power tools or camera equipment. No junk please. Also looking for small 6 to 8 cubic foot chest type freezer. Bob Wood W6ZLA, 1805 No. Frederic, Burbank. TH 2-3472 after 7 PM or weekends.

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HRO-60, Rack mounted $350. W6UTV, 1176 Lincoln, San Jose, Calif.

FOR SALE: SX-88 modified as per article in Dec 1957 Ham Ads $495. Want to order a Racal RA17C, must sell this first. W6GMC, Phone EL 8-0831.

WANTED: Callbooks prior to 1922. Wireless magazines prior 1916. Looking for Colliers 1901 or 2 describing Marconi's letter's transmission on Dec. 12th. 1901. Also Wm. B. Duck & Electro Importing Catalogs. Have QST's to trade also. W7OHW, Oak Harbor, Washington.

WANT: 12, 14 or 17 inch Table TV any condition. Give make, condition, price. Carl Austin, 1101 Bond, Bend Oregon.

FOR SALE: Complete Hi-Power Station. Pair 813 final with 2000 volt, 500 ma. power supply, pair 805 modulators with kilowatt modulation transformer and 1500 volt 500 ma. power supply, equipped with time delay relays, fully metered in 6 ft relay rack cabinet $395. Collins 310B1 driver VFO $150. Speech amplifier & modulation monitor output pair 6L6 to drive the pair of 805, built on 19 in. rack panel $35. SX-71 receiver $125. Make offer on complete station with 6 panel console top to fit 5 ft desk. Lots of other equipment for sale. WANT: Crank up tower and tri-band beam. Joe Brand, K6OJC, 7926 Coldwater Canyon. North Hollywood. Phone POplar 5-8755.

WANTED: Transistors for experimenting. Prefer power and high alpha cut-off types, any quantity large or small. Want URC-4 batteries. Will swap for ham gear, see ad this month. W6TNS, P. O. Box 137 Ontario, Calif.

FOR SALE: Gonset Communicator IIA, 12-115 volt saturn super six halo mobile, 4 element Gonset beam CDR rotor $225. Call Jack, CHurchill 9-0487.

WANTED: Collins 51-J, 32V, 75A, Teletype equipment, Converters URA-8 or similar. BC-348, BC-342, ART-13 BC-610, BC-221, URM-81, etc. CASH OR TRADE FOR NEW Ranger, Valiant, Thunderbolt, HT-32 SX-101, NC-300, HQ-110, 20-A, Gonset, B&W, Elmac, Telrex, Hi-Fi Fisher, Bell, etc. All types used electronic equipment taken in trade. Write, Tom, WIAFN, Alltronics-Howard Co., Box 19, Boston 1, Mass. (RIchmond 2-0048) Stores: 278 Friend St., Boston (near North Station). 60 Spring St. Newport, R.I.

QSL's Newest Designs glossy stock 2 colors 100 for $2.50. Free sample Brochure. One week service. Box 671, Hawthorne, Calif.

YOUR NAME, CALL AND ADDRESS (3 lines) on pocket-sized rubber stamp $1. (4th line 25¢ extra) Postpaid or send for free info. R. Killion, W6FVO, 6206 Yarmouth Ave. Reseda, Calif.

FOR SALE: Hi Fi corner enclosure with bass, midranges, tweetespeakers, crossover network control $75. complete. Ideal communication receiver (National HRO) for labratory, experimenter, or amateur. Rack mounted with coils tuning from 50kc to 30mc. Also ham bands $110. RAX 3 converted with speaker $17. New 4-400A not surplus with ventilated soc. $30. WANTED: Linear amplifier. Call GR 3-6417.

FOR SALE: NC-183-D Receiver. Sorry, no original carton. I lost it but if you are still interested, the bare receiver looks and operates like new, even without the original carton. My loss is your gain. Will sacrifice for $245. Also have model A signal slicer in same condition. However, I have the original carton for this and am asking the ridiculous price of $40. Will not sell without original carton. Also have new two element 10 meter beam with used 12 foot wooden tower. $10. W6PZV, 1300 California Ave. Compton. NE 5-6611.

SELL: Coordinators American Legion net control station, many years. Xmtr 250 watt 10 to 160. 38 watt speech also 10 10 meter. 18 watt portable. Shure mike, xtals, holders, tubes, dozens extra. Fine for beginner. Asking $75. W6BVC, 4145 Elmer Ave. No. Hollywood. PO 1-4625.

WANTED: To buy ham equipment and contact with a ham operator who will help a novice get started in transmitting and receiving CW. I would like to buy a complete station or obtain enough equipment so that I can go on the air when I receive my novice ticket from Washington. Allen Teixeira, 872 Victoria Dr. Pasadena. Phone SYcamore 7-9879.

YOUR NAME CALL AND ADDRESS on GUMMED LABELS 50 cents per 500. 85 cents per 1,000 POSTPAID or send for free info. R. Killion, W6FVO, 6206 Yarmouth Ave. Reseda, Calif.

WANTED: Good quality readable tapes of Sputnik One and Two. Would like to copy for documentary recording on satellites. Will exchange tapes of Explorer and Vangaurd. Don Stoner, W6TNS, P.O. Box 137, Ontario, Calif.

BRAND NEW: National MB-150 tank assy. $15. Choke 5-25 hy at 150 ma., $1.50. Low capacity fil. xfrmr 10v at 10a. $7.50. 3 in. rd. meter 0-1.5 rf amps. $1. 3 in.sq. 0-300 ma. dc $2.50. Used 6v dynamotors, 500 and 550 v. dc at 300 ma. $5. K6EYB, 9 Ocho Rios Place, Danville, Calif.

WANTED: Old radio and wireless sets and parts. 1928 or before. Crystal detectors, crystal sets, tubes, tuning units, parts, old battery receivers catalogues, magazines, books. All letters answered. Will pay cash or trade. Harold S. Greenwood, 2341 Ivyland Ave. Arcadia, Calif. DOuglas 7-7217.

EIMAC PMR 6A receiver, A54H xmtr. 110V supply, earphones, key, mike, in carrying case $220. GEneva 9-4684.

WANTED: Constant voltage transformer, 115 volts, 125 watts or so. What have you? W6GTE, LO 9-2465.

FOR SALE: SX-101 brand new, won in recent Hallicrafters contest. Still at dist. in unopened carton. HT-32, 3 months new, perfect shape. James C 1050 mobile power supply, little used. Stancor 203A mobile transmitter with VFO. FRontier 4-2533 evenings.

WANTED: 6 meter communicator model II any condition, will pay cash. K6OIL, 19227 Lemay St. Reseda. DI 2-0076.

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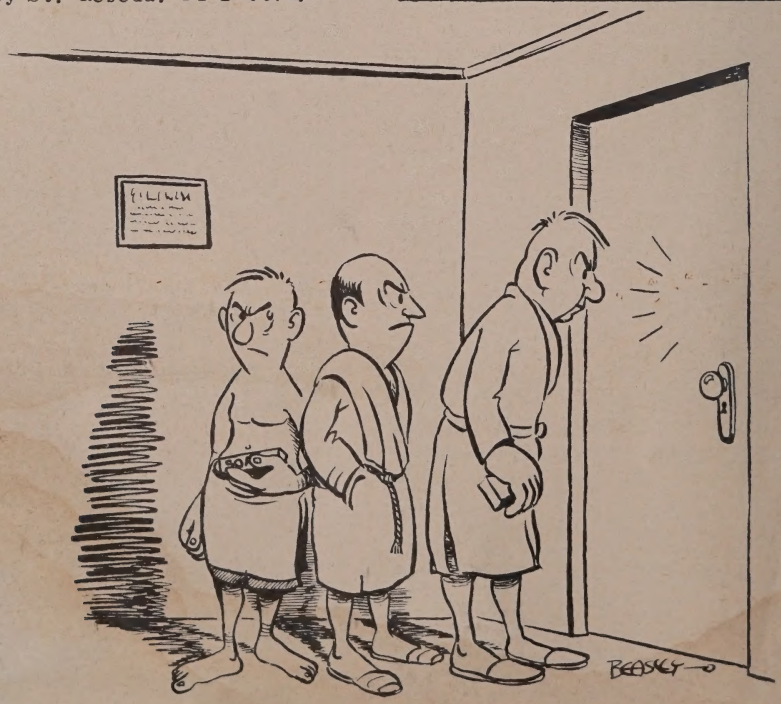

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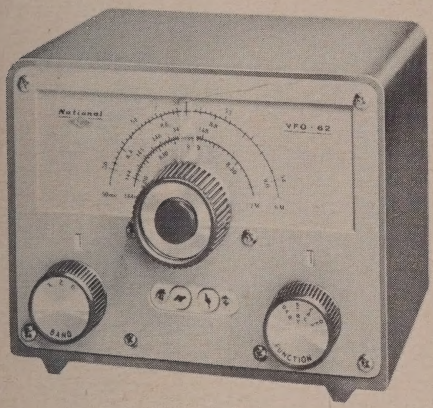

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Here is the first low-cost, self-powered, VFO that has full coverage of both the six and two meter band. FEATURES INCLUDE . . . . use with transmitters using 8 MC oscillator circuit . . . . front panel controlled internal crystal socket for use with 1 MC calibrating crystal, to provide for crystal calibration without accessory equipment or without changing connections . . . . readily accessable front panel crystal socket for instant selection of your favorite crystal without changing transmitter connections . . . . precision vernier drive for precise tuning control . . . . front panel mode switch for off-calibrate-standby-operate function . . . . front panel band switch for choice of six meter, two meter crystal operation . . . . remote standby operate control . . . . and a frequency stability that is better than .005 per cent after thirty minutes. Complete internal shielding eliminates all hand effects.

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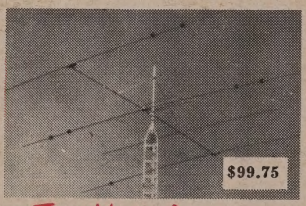

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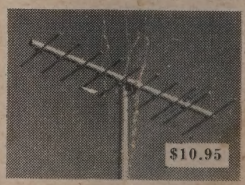

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